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DATA BOOK

1982

A STATISTICAL ABSTRACT

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT

NOVEMBER 1982

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CONTENTS

Page

Foreword: Governor George R. Ariyoshi 5
State Map 6
Introduction: Hideto Kono 7
Guide to Tabular Presentation 8
U.S. and Metric Weights and Measures 9

SECTIONS

1. Population 11
2. Vital statistics and health 55
3. Education 92
4. Law enforcement, courts, and corrections 109
5. Geography and environment 133
6. Land use and ownership 171
7. Recreation and tourism 184
8. Government finances and employment 225
9. Social insurance and welfare services 251
10. National defense 265
11. Labor force, employment, and earnings 273
12. Income, expenditures, and wealth 304
13. Prices 321
14. Elections 339
15. Banking, insurance, and business enterprise 357
16. Communications 381
17. Energy and science 393
18. Transportation 413
19. Agriculture 455
20. Forests, fisheries, and mining 472
21. Construction and housing 483
22. Manufactures 520
23. Domestic trade and services 531
24. Foreign and interstate commerce 559

Bibliography 571
Index 574

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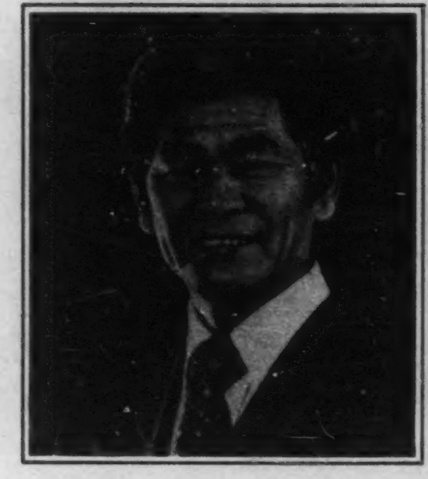


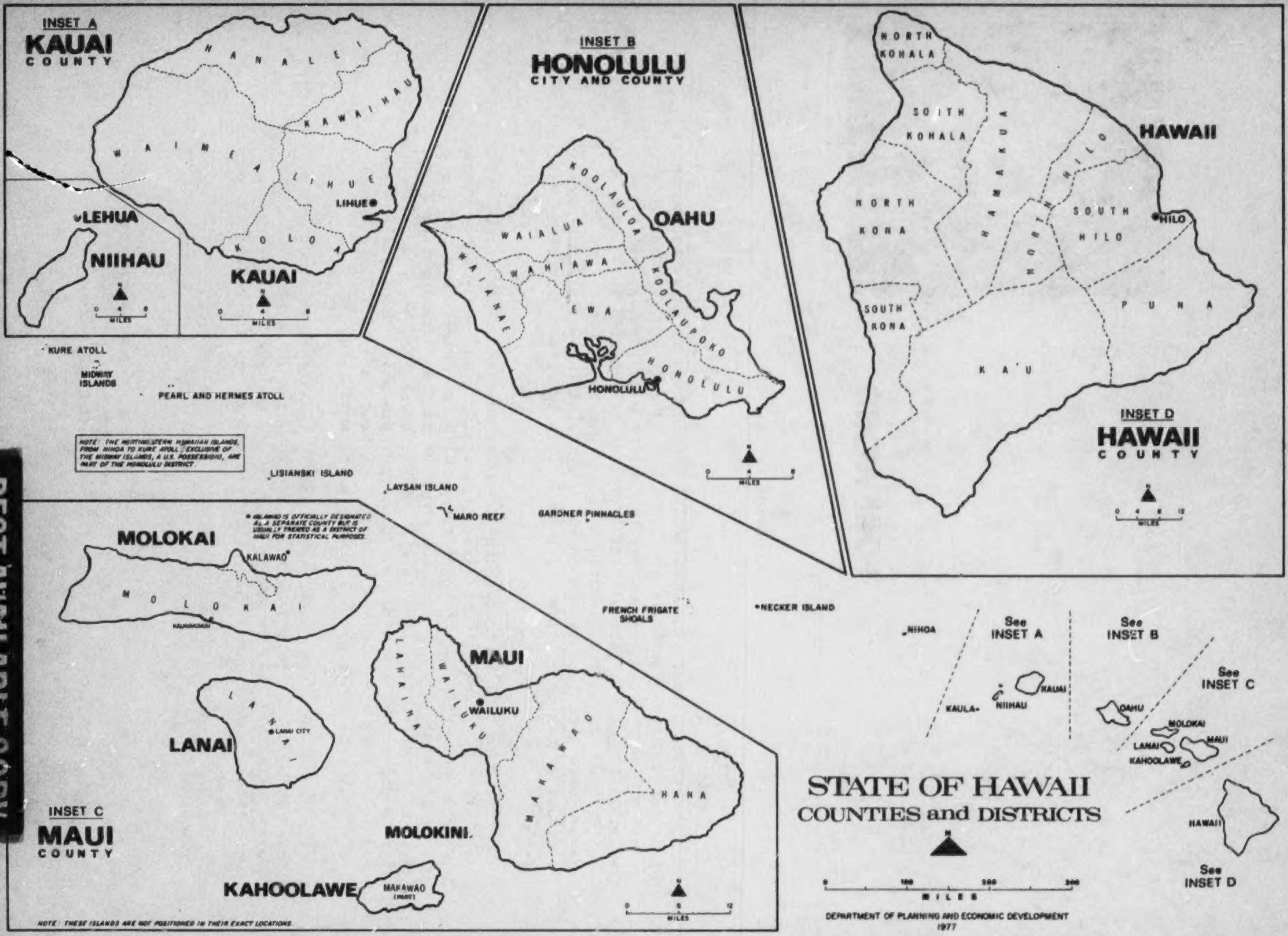
FOREWORD

By George R. Ariyoshi
Governor, State of Hawaii

Accurate, timely and substantial information is essential to sound decision-making. The State of Hawaii has long recognized that orderly State growth and planned prosperity require a continuing, efficient organization of statistical data and other information into forms which are easily used and readily available to all who need them. This State of Hawaii Data Book 1982 is the latest example of the State Administration's constant effort to provide and improve this important service to Hawaii's citizens.

The Data Book is invaluable for Government administrators. It is vital to all agencies, companies, organizations and individuals who carry out a great variety of forms of research in the Islands and overseas. It is very useful to other citizens who have only an occasional need for accurate statistics. It is a book which, thanks to the professionalism of its compilers, can be depended upon, and upon which thousands do depend. And it is only one--although perhaps the best one--of a large number of excellent data sources which Hawaii makes available.

Through such reference works, Hawaii is able to go about its myriad tasks with confidence that its information base is sound. This State of Hawaii Data Book 1982 is one of many proofs we have that our people know what they are doing, and where they are going, and are reasonably certain they can achieve their goals.


INSET A
KAUAI
COUNTY
HANALEI
KAWAIHAU
WAIMEA
LIHUE
LIHUE
KOLOA
LEHUA
NIIHAU
KAUAI
MILES
INSET B
HONOLULU
CITY AND COUNTY
OAHU
KOOLAULOA
WAIALUA
WAHIAWA
WAIANAE
EWA
KOOLAUPOKO
HONOLULU
HONOLULU
MILES
NORTH KOHALA
SOUTH KOHALA
HAMAKUA
NORTH HILO
HAWAII
SOUTH HILO
HILO
NORTH KONA
SOUTH KONA
PUNA
KA'U
INSET D
HAWAII
COUNTY
MILES
KURE ATOLL
MIDWAY ISLANDS
PEARL AND HERMES ATOLL
NOTE: THE NORTHWESTERN HAWAIIAN ISLANDS, FROM NIHOA TO KURE ATOLL (EXCLUSIVE OF THE MIDWAY ISLANDS, A U.S. POSSESSION), ARE PART OF THE HONOLULU DISTRICT.
LISIANSKI ISLAND
LAYSAN ISLAND
MARO REEF
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER ISLAND
NIHOA
* KALAWAO IS OFFICIALLY DESIGNATED AS A SEPARATE COUNTY BUT IS USUALLY TREATED AS A DISTRICT OF MAUI FOR STATISTICAL PURPOSES.
MOLOKAI
KALAWAO*
MOLOKAI
KAUNAKAKAI
MAUI
LAHAINA
WAILUKU
WAILUKU
MAKAWAO
HANA
LANAI
LANAI CITY
LANAI
MOLOKINI
KAHOOLAWE
MAKAWAO (PART)
INSET C
MAUI
COUNTY
MILES
NOTE: THESE ISLANDS ARE NOT POSITIONED IN THEIR EXACT LOCATIONS.
See INSET A
See INSET B
See INSET C
See INSET D
KAULA
NIIHAU
KAUAI
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII
MILES
0
100
200
300

STATE OF HAWAII
COUNTIES and DISTRICTS

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
1977

BEST AVAILABLE COPY

INTRODUCTION

By Hideto Kono, Director
Department of Planning and Economic Development

The State of Hawaii Data Book: A Statistical Abstract is intended to serve as the standard official summary of statistics on the social, economic, and political organization of the State. Like its long-established counterpart, the Statistical Abstract of the United States, it may be used as either a convenient volume of statistical reference or a guide to other statistical publications and sources.

The present volume, containing statistics available in the summer of 1982, is the sixteenth such abstract to be published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968, and annually beginning in 1970. All are now out of print, but copies can be seen in many high school, university, and public libraries in Hawaii.

The Data Book closely follows the organization and format of the U.S. Abstract, in order to facilitate comparison of Hawaii data with corresponding series for the nation and other jurisdictions.

Emphasis in the Data Book is given to the most recent available State data. Historical statistics and information for counties, islands, urban places, and smaller areas receive more limited attention. The publications cited as sources in the introductions to the various sections or at the end of each table usually contain additional statistical detail and a more comprehensive discussion of relevant definitions and concepts than can be presented here. Persons interested in more extensive information should consult these sources or write to the agencies responsible for them.

Largely as a result of federal budget reductions, many important statistical series have been suspended or terminated. Examples include the annual counts of aliens (table 20 in this edition), comprehensive long-term meteorological data (table 140), the National Travel Survey (tables 154 and 155 in the 1981 edition), Federal outlays (tables 224-226 in 1982), turnover in manufacturing employment (table 273), union membership (table 281), average food prices (table 258 in 1980), comparative family budgets (tables 293-295 in 1982), broadcast revenues and expenditures (table 362), passenger movements in Honolulu Harbor (table 441), fishery establishments (table 465), unsold housing inventory (tables 487 and 488 in 1981), the annual survey of manufactures (tables 511 and 513), and department stores sales (table 529). Many other statistical reports, particularly those from the 1980 decennial census, have been delayed long beyond their planned release dates.

Many Federal, State, County and private organizations cooperated in the preparation of this report. These agencies are credited in the source references to the tables to which they contributed. Their assistance is gratefully acknowledged.

GUIDE TO TABULAR PRESENTATION

The tables in this report generally follow the principles of tabular presentation used by the U.S. Bureau of the Census in its annual publication, Statistical Abstract of the United States, and described in Bureau of the Census Manual of Tabular Presentation, published by the Bureau in 1950. These principles have been accepted by the Department of Planning and Economic Development for use in its publications and recommended to all other State agencies for official use.

Headnotes immediately below table titles provide information important for correct interpretation or evaluation of the table as a whole or for a major segment of it.

Unit indicators ("In thousands," "In millions of dollars," etc.) are usually given as the first element of the headnote. In tables where several units are used, the unit indicators are generally given in the stub or in the column headings.

Footnotes below the bottom rule of tables give information relating to specific items or figures within the table.

Parallel vertical rules are used to the right of a total column to indicate --

(1) that the components which follow add to the total;
(2) in the case of derived figures, that the underlying data are additive to their total.

The following symbols, used in the tables throughout this book, are explained in condensed form in footnotes to the tables where they appear:

-	Represents zero or rounds to less than half the unit of measurement shown.
D	Figure withheld to avoid disclosure of information pertaining to a specific organization or individual.
NA	Data not enumerated, tabulated, or otherwise available separately.
...	Same as NA; used in tables in which a large number of cells lack data.

In many tables, details will not add to the totals shown because of rounding.

Median: The value which divides the distribution into two equal parts--one-half the cases falling below this value and one-half exceeding it.

Geographic coverage should be understood as Statewide, unless otherwise indicated in the table title, headnote, boxhead, or stub. All annual statistics should be understood as referring to calendar years unless otherwise indicated.

UNITED STATES AND METRIC WEIGHTS AND MEASURES

U.S.			to	Metric	Metric			to	U.S.
Length									
Inches	x	25.4	=	millimeters	millimeters	x	0.039	=	inches
Feet	x	0.305	=	meters	meters	x	3.281	=	feet
Statute miles	x	1.609	=	kilometers	kilometers	x	0.621	=	miles
Area									
Sq. feet	x	0.093	=	sq. meters	sq. meters	x	10.764	=	sq. feet
Acres	x	0.405	=	hectares	hectares	x	2.471	=	acres
Sq. miles	x	2.589	=	sq. kilometers	sq. kilometers	x	0.386	=	sq. miles
Volume and capacity									
Cubic feet	x	0.028	=	cu. meters	cu. meters	x	35.315	=	cu. feet
Cubic yards	x	0.765	=	cu. meters	cu. meters	x	1.308	=	cu. yards
Fluid ounces	x	29.573	=	milliters	milliters	x	0.034	=	fluid ounces
Quarts (liq.)	x	0.946	=	liters	liters	x	1.057	=	quarts (liq.)
Gallons (liq.)	x	3.785	=	liters	liters	x	0.264	=	gallons (liq.)
Mass									
Ounces (avdp.)	x	28.350	=	grams	grams	x	0.035	=	ounces (avdp.)
Pounds (avdp.)	x	0.454	=	kilograms	kilograms	x	2.205	=	pounds (avdp.)
Hundredweight	x	45.359	=	kilograms	kilograms	x	0.022	=	hundredweight
Short tons	x	0.907	=	metric tons	metric tons	x	1.102	=	short tons

Miscellaneous conversions
1 statute mile = 5,280 ft. = 1,760 yards
1 acre = 43,560 sq. feet
1 square mile = 640 acres
1 short ton = 2,000 pounds

Continued on next page.

UNITED STATES AND METRIC WEIGHTS AND MEASURES -- Con.

Fahrenheit	to	Celsius	Celsius	to	Fahrenheit
Temperature					
100 °F		37.8 °C	40 °C		104.0 °F
90		32.2	35		95.0
80		26.7	30		86.0
70		21.1	25		77.0
60		15.6	20		68.0
50		10.0	15		59.0
40		4.4	10		50.0
30		-1.1	5		41.0
20		-6.7	0		32.0
10		-12.2	-5		23.0
			-10		14.0

Source: U.S. National Bureau of Standards, Special Publication 304a; Department of Geography, University of Hawaii, Atlas of Hawaii.

Section 1

POPULATION

This section presents statistics on the growth, geographic distribution, and composition of the population of Hawaii, and on the number and characteristics of migrants moving to and from the State.

The 1980 census reported a resident population of 964,691. This total included approximately 57,000 members of the armed forces and 64,000 of their dependents. It excluded more than 97,000 visitors who were present on an average day in 1980, while including around 10,000 residents who were temporarily out of the State. The total population has risen from 58,000 in 1878 to 154,000 in 1900 and 423,000 in 1940. Almost four-fifths of the 1980 de facto total lived on Oahu, giving that island a density of 1,387 persons per square mile. The population is young -- the median age in 1980 was 28.3 years -- and racially diversified. The major unmixed groups in 1980 were Caucasians (26.3 percent of the non-barracks, non-institutional population) and Japanese (23.5 percent). In addition, 27.3 percent were of mixed race, primarily part Hawaiian. The 1980 census reported 299,000 households and 226,000 families in the State. The average household size was 3.15. Migration has been a major factor in the growth of the population: between 1970 and 1980, there was a net in-migration (excluding military personnel and dependents) of 101,000, accounting for 54 percent of the total civilian population growth during that time. Immigrant arrivals in 1979 (the most recent available year) exceeded 8,900, mostly from the Philippines and Korea.

The comparison of demographic data from different sources is often complicated by the use of differing definitions and coverage. Some series, for example, refer to resident population, while others pertain to de facto population; the latter includes visitors present but excludes residents temporarily absent. Total population includes armed forces stationed in an area, as well as their dependents in the area; civilian population excludes military personnel but includes their dependents. Perhaps the greatest confusion is that resulting from the arbitrary allocation of persons of mixed race in the 1970 and 1980 U.S. Censuses. Such groups were shown separately in earlier censuses, and are still reported separately in data issued by State agencies.

The principal sources for these data are the decennial population censuses conducted by the U.S. Bureau of the Census, the estimates developed annually by the Hawaii State Department of Health and Department of Planning and Economic Development in cooperation with the Bureau of the Census, the Hawaii Health Surveillance Program conducted regularly since 1969 by the Department of Health, and the ongoing series on migration maintained by the Hawaii Visitors Bureau and U.S. Immigration and Naturalization Service. The Department of Planning and

Economic Development summarizes these data in two series of reports, both issued annually: The Population of Hawaii and Hawaii's In-Migrants. Another annual report distributed by DPED contains population estimates for Oahu census tracts. Much additional information will become available when the detailed results of the 1980 Census of Population are released. Earlier figures on population and migration are given in Historical Statistics of Hawaii, Sections 1 and 3. Comparable national statistics on population and migration appear in sections 1 and 3 of Statistical Abstract of the United States: 1981.

Table 1.-- POPULATION, URBAN AND RURAL: 1831 TO 1980

[Data for 1831-1896 are on a de facto or unspecified basis; data for 1900 and later years are resident totals, including armed forces stationed in Hawaii.]

Census date	Total population		Urban 1/		Rural 2/	
	Number	Percent change 3/	Places	Population	Population	Percent of total
1831-32 4/	129,814	...	1	13,344	116,470	89.7
1835-36 5/	108,568	-4.5	1	12,994	95,574	88.0
1850: January ..	84,165	-1.8	1	14,484	69,681	82.8
1853: Dec. 26 ..	73,138	-3.5	1	11,455	61,683	84.3
1860: Dec. 24 ..	69,800	-0.7	1	14,310	55,490	79.5
1866: Dec. 7 ...	62,959	-1.7	1	13,521	49,438	78.5
1872: Dec. 27 ..	56,897	-1.7	1	14,852	42,045	73.9
1878: Dec. 27 ..	57,985	0.3	1	14,114	43,871	75.7
1884: Dec. 27 ..	80,578	5.5	1	20,487	60,091	74.6
1890: Dec. 28 ..	89,990	1.8	1	22,907	67,083	74.5
1896: Sept. 27 .	109,020	3.3	1	29,920	79,100	72.6
1900: June 1 ...	154,001	9.4	1	39,306	114,695	74.5
1910: April 15 .	191,874	2.2	2	58,928	132,946	69.3
1920: January 1	255,881	3.0	2	92,251	163,630	63.9
1930: April 1 ..	368,300	3.6	12	197,937	170,363	46.3
1940: April 1 ..	422,770	1.4	17	264,262	158,508	37.5
1950: April 1 ..	499,794	1.7	17	344,869	154,925	31.0
1960: April 1 ..	632,772	2.4	19	483,961	148,811	23.5
1970: April 1 ..	769,913	2.0	34	643,222	126,691	16.5
1980: April 1 ..	964,691	2.3	42	834,592	130,099	13.5

1/ The urban population comprises all persons living in urbanized areas (first defined for Hawaii in 1960) and in places of 2,500 or more outside urbanized areas. Statistical boundaries were first established for Honolulu in 1831, Hilo in 1911 (for 1910 census tabulations), and other urban places beginning in 1930.

2/ The rural population includes all persons living outside urban places.

3/ Annual rate since the preceding census, based on the formula for continuous compounding.

4/ Total population also reported as 130,313.

5/ Total population also reported as 108,393 and 108,579.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 8; U. S. Bureau of the Census, 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 1, as corrected.

Table 2.-- RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1981

[Excludes visitors present but includes residents temporarily absent.]

Year 1/	Total resident population	Armed forces 2/	Civilian population		
			All civilians	Military dependents 3/	Not military dependents
1970: April 1 .	769,913	55,142	714,771	61,858	652,913
July 1 ..	776,000	53,200	722,800	57,800	665,000
1971	801,000	50,800	750,200	62,200	688,000
1972	828,000	52,000	776,000	66,200	709,800
1973	851,000	58,100	792,900	70,300	722,600
1974	867,000	57,500	809,500	68,300	741,200
1975	884,000	58,900	825,100	63,700	761,400
1976	902,000	57,800	844,200	67,000	777,200
1977	916,000	56,500	859,500	65,000	794,500
1978	929,000	58,300	870,700	61,100	809,600
1979	950,000	57,900	892,100	64,500	827,600
1980: April 1 .	964,691	57,056	907,635	64,023	843,612
July 1 ..	969,000	57,900	911,100	64,100	847,000
1981	981,000	56,600	924,400	64,300	860,100

1/ As of July 1 unless otherwise specified.

2/ These figures are the estimates prepared by the U.S. Bureau of the Census for use in State population estimation, and differ somewhat from the data compiled by the Hawaii State Department of Planning and Economic Development (and published annually in Military Personnel and Dependents in Hawaii).

3/ Dependents living in Hawaii, regardless of location of family head.

Source: Hawaii State Department of Planning and Economic Development, Preliminary Intercensal Population Estimates, 1970-1980 (Statistical Report 147, July 9, 1981) and records; U.S. Bureau of the Census, "Provisional Estimates of the Population of States: July 1, 1981," Current Population Reports, Series P-25, No. 911, April 1982, and records.

Table 3.-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS: 1970 TO 1981

Year 1/	Resident population 2/		De facto population 3/	
	Total	Temporarily absent 4/	Total	Visitors present 4/
1970: April 1 ..	769,913	10,300	796,500	36,900
July 1 ...	776,000	10,000	802,900	36,900
1971	801,000	9,400	832,500	40,900
1972	828,000	8,600	869,500	50,100
1973	857,000	9,800	900,700	59,600
1974	867,000	7,800	922,800	63,500
1975	884,000	9,000	941,300	66,300
1976	902,000	9,400	968,100	75,500
1977	916,000	9,000	990,000	83,000
1978	929,000	9,300	1,011,700	92,000
1979	950,000	9,300	1,039,400	98,700
1980: April 1 ..	964,691	9,600	1,052,700	97,600
July 1 ...	969,000	9,600	1,055,900	96,500
1981	981,000	11,600	1,065,500	96,100

1/ As of July 1 unless otherwise specified.

2/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area but excludes persons of local origin attending school or in military service outside the area.

3/ The de facto population is defined as the number of persons physically present in an area, regardless of usual place of residence; it includes visitors present but excludes residents temporarily absent.

4/ Averages for 12-month periods centered on the estimate or census dates.

Source: Hawaii State Department of Planning and Economic Development, Preliminary Intercensal Population Estimates, 1970-1980 (Statistical Report 147, July 9, 1981) and records; U.S. Bureau of the Census, "Provisional Estimates of the Population of States: July 1, 1981," Current Population Reports, Series P-25, No. 911, April 1982.

Table 4.-- RESIDENT POPULATION, TOTAL AND CIVILIAN, OF COUNTIES AND ISLANDS: 1970 AND 1980

[Excludes visitors present and includes residents temporarily absent.]

County and island	Total resident population 1/			Civilian resident population 2/	
	April 1, 1970	April 1, 1980 3/	Percent change	April 1, 1970	April 1, 1980 3/
State total	769,913	964,691	25.3	714,771	907,635
City and County of Honolulu	630,528	762,565	20.9	575,719	705,839
Oahu	630,497	762,534	20.9	575,719	705,831
Outlying islands 4/	31	31	0	-	8
Other counties	139,385	202,126	45.0	139,052	201,796
Hawaii	63,468	92,053	45.0	63,328	91,901
Kauai	29,761	39,082	31.3	29,627	38,929
Kauai	29,524	38,856	31.6	29,390	38,703
Kaula and Lehua	-	-	...	-	-
Niihau	237	226	-4.6	237	226
Maui and Kalawao	46,156	70,991	53.8	46,097	70,966
Kahoolawe	-	-	...	-	-
Lanai	2,204	2,119	-3.9	2,204	2,119
Maui	38,691	62,823	62.4	38,632	62,798
Molokai	5,261	6,049	15.0	5,261	6,049
Kalawao	172	144	-16.3	172	144
Rest of Molokai	5,089	5,905	16.0	5,089	5,905

1/ Including military personnel and their dependents.

2/ Excluding military personnel but including their dependents.

3/ Revised, October 26, 1982.

4/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll but excluding Midway.

Source: U.S. Bureau of the Census, 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 4; unpublished estimates of armed forces by the U.S. Bureau of the Census and Hawaii State Department of Planning and Economic Development.

Table 5.-- RESIDENT POPULATION, BY COUNTIES: 1970 TO 1981

[Includes military personnel and dependents.]

Year 1/	State total	City & Co. of Honolulu	Hawaii County	Kauai County	Maui County
1970 April 1 ..	769,913	630,528	63,468	29,761	46,156
July 1 ...	776,000	634,700	64,500	30,100	46,700
1971	801,000	654,400	67,200	31,100	48,300
1972	828,000	675,700	70,200	31,800	50,300
1973	851,000	693,400	72,900	32,600	52,100
1974	867,000	704,300	75,600	32,800	54,300
1975	884,000	714,300	78,100	34,100	57,500
1976	902,000	726,000	80,600	35,200	60,200
1977	916,000	733,800	83,000	36,200	63,000
1978	929,000	740,300	85,700	37,000	66,000
1979	950,000	754,000	89,000	38,100	68,900
1980 April 1 ..	964,691	762,565	92,053	39,082	70,991
July 1 2/.	969,000	765,700	92,700	39,200	71,400
1981 2/	981,000	774,000	95,000	39,400	72,600

1/ July 1 unless otherwise specified.

2/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, Preliminary Intercensal Population Estimates, 1970-1980 (Statistical Report 147, July 9, 1981) and unpublished estimates for 1980 and 1981; U.S. Bureau of the Census, 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 2, and "Provisional Estimates of the Population of States: July 1, 1981," Current Population Reports, Series P-25, No. 911, April 1982.

Table 6.-- DE FACTO POPULATION, 1970 AND 1980, AND DENSITY, 1980, OF COUNTIES AND ISLANDS

[Includes visitors present and excludes residents temporarily absent, both calculated as annual averages centered on the census date.]

	De facto population 1/			De facto density, 1980	
County and island	April 1, 1970	April 1, 1980	Percent change	Per square mile	Per square km.
State total	796,500	1,052,700	32.2	163.8	63.3
City and County of Honolulu	650,700	822,000	26.3	1,379.9	532.7
Oahu	650,700	822,000	26.3	1,386.8	535.5
Outlying islands 2/	31	31	0	10.3	3.9
Other counties	145,800	230,700	58.2	39.6	15.3
Hawaii	65,700	98,700	50.3	24.4	9.4
Kauai	31,800	46,100	45.3	74.5	28.8
Kauai	31,500	45,900	45.7	83.7	32.3
Kaula and Lehua	-	-	...	-	-
Niihau	237	226	-4.6	3.2	1.3
Maui and Kalawao.........	48,400	85,900	77.3	73.2	28.2
Kahoolawe	-	-	...	-	-
Lanai	2,200	2,100	-3.4	15.3	5.9
Maui	40,900	76,800	87.8	105.5	40.7
Molokai	5,300	6,900	30.2	26.5	10.2
Kalawao	172	144	-16.3	10.8	4.2
Rest of Molokai	5,100	6,800	31.7	27.3	10.6

1/ These estimates have been independently rounded to the nearest 100 (except for the smallest areas) and hence may not add exactly to the indicated totals. Data for both 1970 and 1980 were revised in June 1981.

2/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, but excluding Midway.

Source: Estimated by the Hawaii State Department of Planning and Economic Development, from 1980 resident population counts in 1980 Census of Population, PC80-1-A13, Hawaii (October 1981) table 4; data on visitors present and residents absent supplied by the Hawaii Visitors Bureau; and area estimates from the Geography Division of the U.S. Bureau of the Census.

Table 7.-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS: 1960 TO 1980

County and district 1/	April 1, 1960	April 1, 1970	April 1, 1980	Percent change	
				1960 to 1970	1970 to 1980
The State	632,772	769,913	964,691	21.7	25.3
Honolulu	500,409	630,528	762,565	26.0	20.9
Honolulu	294,194	324,871	365,048	10.4	12.4
Koolaupoko	60,238	92,219	109,373	53.1	18.6
Koolauloa	8,043	10,562	14,195	31.3	34.9
Waialua	8,221	9,171	9,849	11.6	7.4
Wahiawa	34,595	37,329	41,562	7.9	11.3
Waianae	16,452	24,077	31,487	46.3	30.8
Ewa	78,666	132,299	191,051	68.2	44.4
Hawaii	61,332	63,468	92,053	3.5	45.0
Puna	5,030	5,154	11,751	2.5	128.0
South Hilo	31,553	33,915	42,278	7.5	24.7
North Hilo	2,493	1,881	1,679	-24.5	-10.7
Hamakua	5,221	4,648	5,128	-11.0	10.3
North Kohala	3,386	3,326	3,249	-1.8	-2.3
South Kohala	1,538	2,310	4,607	50.2	99.4
North Kona	4,451	4,832	13,748	8.6	184.5
South Kona	4,292	4,004	5,914	-6.7	47.7
Ka'u	3,368	3,398	3,699	0.9	8.9
Maui and Kalawao ..	42,855	46,156	70,991	7.7	53.8
Hana	1,073	969	1,423	-9.7	46.9
Makawao	10,409	9,979	19,005	-4.1	90.4
Wailuku	19,391	22,219	32,111	14.6	44.5
Lahaina	4,844	5,524	10,284	14.0	86.2
Lanai	2,115	2,204	2,119	4.2	-3.9
Molokai	4,744	5,089	5,905	7.3	16.0
Kalawao	279	172	144	-38.4	-16.3
Kauai	28,176	29,761	39,082	5.6	31.3
Waimea	7,057	7,569	8,593	7.3	13.5
Koloa	7,012	6,851	8,734	-2.3	27.5
Lihue	6,297	6,766	8,590	7.4	27.0
Kawaihau	6,498	7,393	10,497	13.8	42.0
Hanalei	1,312	1,182	2,668	-9.9	125.7

1/ For county and district boundaries, see map on page 6.

Source: U.S. Bureau of the Census, 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 4.

Table 8.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES

[This table presents data for the 101 places defined by the Hawaii State Department of Planning and Economic Development, in cooperation with the Bureau of the Census, for the 1980 decennial census, under authority granted by Sec. 26-18, Hawaii Revised Statutes, 1976 Replacement. Boundaries of a large number of places were significantly altered between 1970 and 1980, and the 1970 and 1980 population counts accordingly refer to different areas. Although described in the legislation as "cities, towns, and villages," none of these places is an independent municipality with separate governmental and taxing powers; the boundaries determined for these places are statistical rather than political.]

Island and place	Land area, 1980 (acres)	Resident population	
		1970 1/	1980
Hawaii	2,583,680	63,468	92,053
Captain Cook	4,800	1,263	2,008
Hakalau	701	742	250
Hawi	674	797	795
Hilo	35,929	26,353	35,269
Holualoa 2/	2,767	(NA)	1,243
Honokaa	882	1,555	1,936
Honomu	301	737	559
Kailua	4,988	365	4,751
Kainaliu 2/	1,039	(NA)	512
Kapaau	1,234	237	612
Keaau	620	951	775
Kealakekua	1,327	740	1,033
Kukuihaele	1,120	310	332
Laupahoehoe	1,139	452	500
Makapala	823	201	186
Mountain View	1,032	419	540
Naalehu	2,541	1,014	1,168
Ookala	374	486	401
Paauilo	773	710	755
Pahala	637	1,507	1,619
Pahoa	1,461	924	923
Papaaloa	297	319	264
Papaikou	921	1,888	1,567
Paukaa 2/	266	(NA)	544
Puako 2/	2,707	(NA)	257
Waimea	652	756	1,179
Wainaku 2/	275	(NA)	1,045
Remainder of island ..	2,513,400	20,742	31,030

Continued on next page.

Table 8.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES -- Con.

Island and place	Land area, 1980 (acres)	Resident population	
		1970 1/	1980
Maui	466,048	38,691	62,823
Haiku	194	464	619
Haliimaile	150	638	741
Hana	1,521	459	643
Honokahua	545	431	309
Kaanapali 2/	852	(NA)	541
Kahului	2,888	8,280	12,978
Kihei 2/	2,099	(NA)	5,644
Lahaina	1,150	3,718	6,095
Lower Paia	626	1,105	1,500
Makawao	1,111	1,066	2,900
Napili-Honokowai 2/ ..	482	(NA)	2,446
Paia	630	541	193
Pauwela	234	355	468
Pukalani	1,478	1,629	3,950
Puunene	340	1,132	572
Waihee	278	346	413
Waikapu	257	598	698
Wailea 2/	1,348	(NA)	1,124
Wailuku	2,283	7,979	10,260
Remainder of island ..	447,582	9,950	10,729
Kahoolawe	28,800	-	-
Molokini	19	-	-
Lanai	89,280	2,204	2,119
Lanai City	154	2,122	2,092
Remainder of island ..	89,126	82	27
Molokai	166,976	5,261	6,049
Kaunakakai	1,289	1,070	2,231
Kualapuu	52	441	502
Maunaloa	99	872	633
Remainder of island ..	165,536	2,878	2,683
Oahu	379,328	630,497	762,534
Ahuimanu 2/	1,646	(NA)	6,238
Aiea 3/	3,716	25,106	32,879
Barbers Point Housing.	149	3,187	1,373
Ewa	627	2,906	2,637
Ewa Beach	882	7,765	14,369

Continued on next page.

Table 8.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES -- Con.

Island and place	Land area, 1980 (acres)	Resident population	
		1970 1/	1980
Oahu (con.):			
Haleiwa	1,207	2,626	2,412
Hauula	1,006	2,048	2,997
Heeia 2/	931	(NA)	5,432
Hickam Housing	776	7,352	4,425
Honolulu 4/...........	51,828	324,840	365,017
Iroquois Point	403	4,572	3,915
Kaaawa	367	848	959
Kahaluu	841	1,657	2,925
Kahuku	566	917	935
Kailua	4,470	33,783	35,812
Kaneohe 5/	3,886	29,903	29,919
Laie	781	3,009	4,643
Maili	573	4,397	5,026
Makaha	1,600	4,644	6,582
Makakilo City	1,791	3,499	7,691
Maunawili	2,230	5,303	5,239
Mililani Town	2,354	2,035	21,365
Mokapu	2,718	7,860	11,615
Nanakuli	1,602	6,506	8,185
Pearl City 6/	5,449	27,398	42,575
Schofield Barracks ...	1,849	13,516	18,851
Wahiawa	1,492	17,598	16,911
Waialua	784	4,047	4,051
Waianae	2,194	3,302	7,941
Waimanalo	255	2,081	3,562
Waimanalo Beach	973	3,045	4,161
Waipahu	1,815	24,150	29,139
Waipio Acres	447	2,146	4,091
Whitmore Village	470	2,015	2,318
Remainder of island ..	276,650	52,882	46,344
Kauai	351,168	29,524	38,856
Anahola	860	638	915
Eleele	350	758	580
Hanalei	434	153	483
Hanamaulu	508	2,461	3,227
Hanapepe	580	1,388	1,417
Kalaheo	1,152	1,514	2,500
Kapaa	2,415	3,794	4,467
Kaumakani	559	1,014	888
Kekaha	646	2,404	3,260

Continued on next page.

Table 8.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES -- Con.

Island and place	Land area, 1980 (acres)	Resident population	
		1970 1/	1980
Kauai (con.):			
Kilauea	348	671	895
Koloa	722	1,368	1,457
Lihue	3,959	3,124	4,000
Poipu	587	466	685
Princeville 2/	1,367	(NA)	500
Puhi	129	772	991
Wailua	763	1,379	1,587
Waimea	624	1,569	1,569
Remainder of island ..	335,165	6,288	9,435
Niihau	44,544	237	226
Lehua and Kaula	523	-	-
Northwestern Hawaiian Islands, exc. Midway .	1,895	31	31

NA Not available.

1/ Unless otherwise indicated, the 1970 totals shown here refer to the area as bounded for the 1970 census rather than the area defined for 1980.

2/ These places were newly defined for 1980.

3/ Aiea was redefined for 1980 to include four places shown separately in 1970: Aiea (12,560), Foster Village (3,755), Halawa Heights (5,809), and Waimalu (2,982). The 1970 population shown here is the sum of the figures for the separate places.

4/ Excluding the Northwestern Hawaiian Islands (1,895 acres; 31 inhabitants in both 1970 and 1980), legally part of Honolulu. Including the Northwestern Hawaiian Islands, Honolulu had a land area of 53,723 acres and a population of 324,871 in 1970 and 365,048 in 1980.

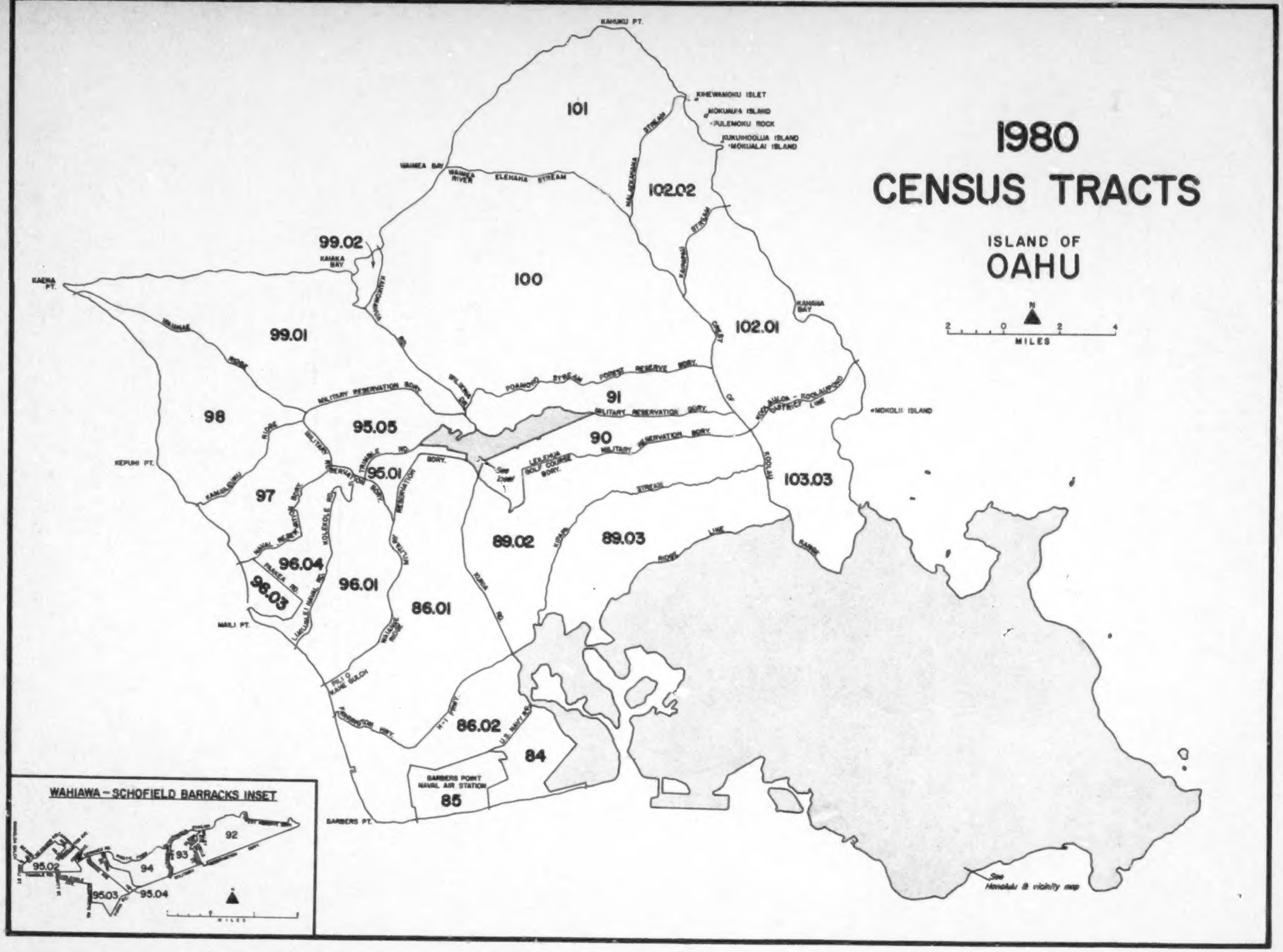
5/ Heeia (5,432 in 1980) included with Kaneohe in 1970 but not in 1980. The 1970 population within the 1980 boundaries of Kaneohe was 26,998. The 1980 population within the 1970 boundaries of Kaneohe was 35,351.

6/ Pearl City was redefined for 1980 to include two places shown separately in 1970: Pacific Palisades (7,846) and Pearl City (19,552). The 1970 population shown here is the sum of the figures for those two places.

Source: Area from Hawaii State Department of Planning and Economic Development, Statistical Boundaries of Cities, Towns and Villages As Approved Through December 31, 1979 (Report SB-A15, March 13, 1980). Population from U.S. Bureau of the Census, U.S. Census of Population: 1970, PC(1)-A13, Hawaii (April 1971), tables 6 and 9 and correction note; 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 4; and unpublished final counts for places under 300 based on enumeration district data supplied February 13, 1981.

1980
CENSUS TRACTS

ISLAND OF
OAHU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ELEHAHA STREAM
MALAEKAHANA STREAM
KAIPAPAU STREAM
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POAMOHO STREAM FOREST RESERVE BDRY.
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MILITARY RESERVATION BDRY.
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LELEHUA GOLF COURSE BDRY.
See Inset
KAMAILEUNU RIDGE
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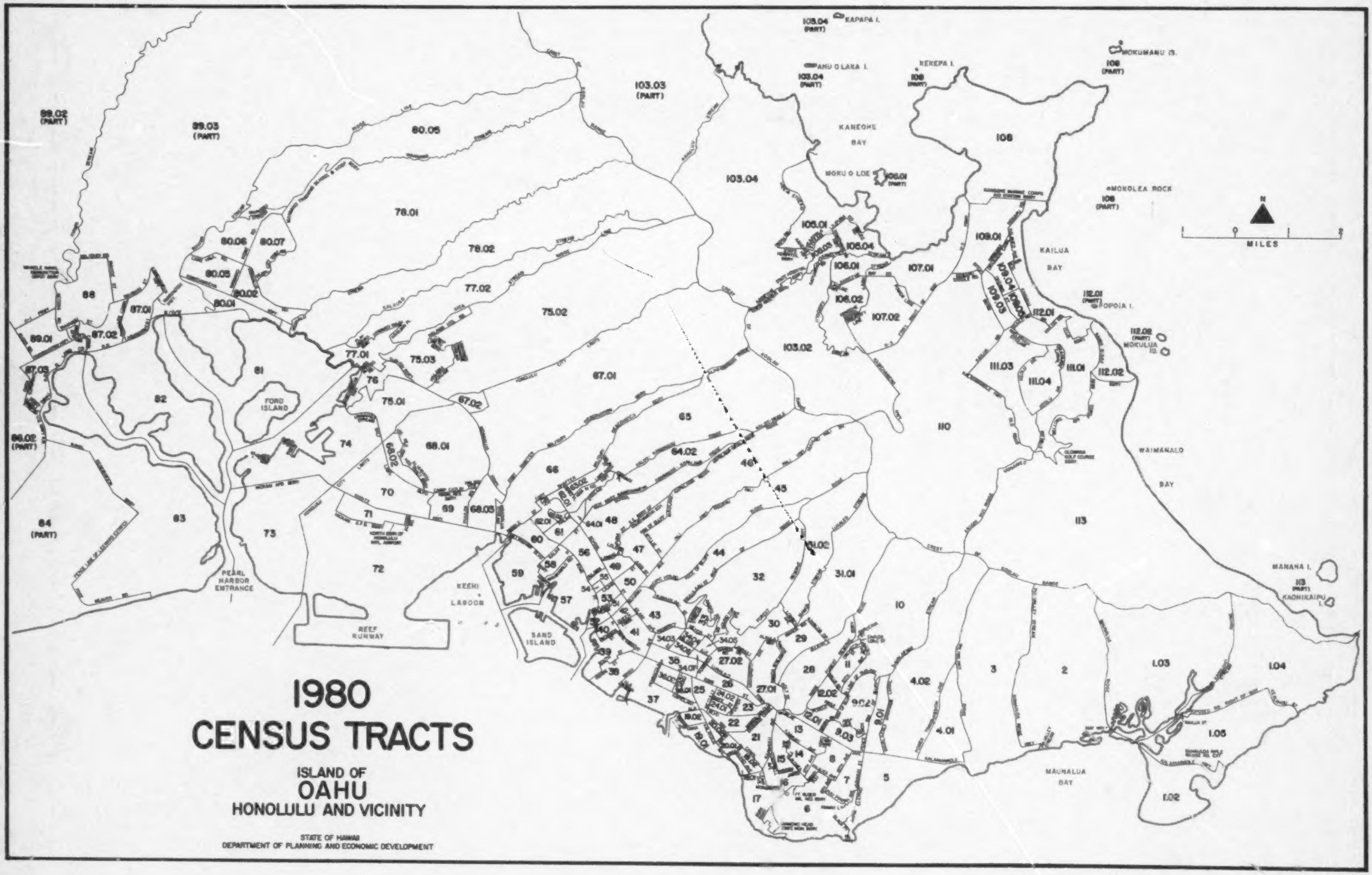
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MOKU O LOE
MOKOLEA ROCK
KAILUA BAY
POPOIA I.
MOKULUA IS.
WAIMANALO BAY
MANANA I.
KAOHIKAIPU I.
MAUNALUA BAY
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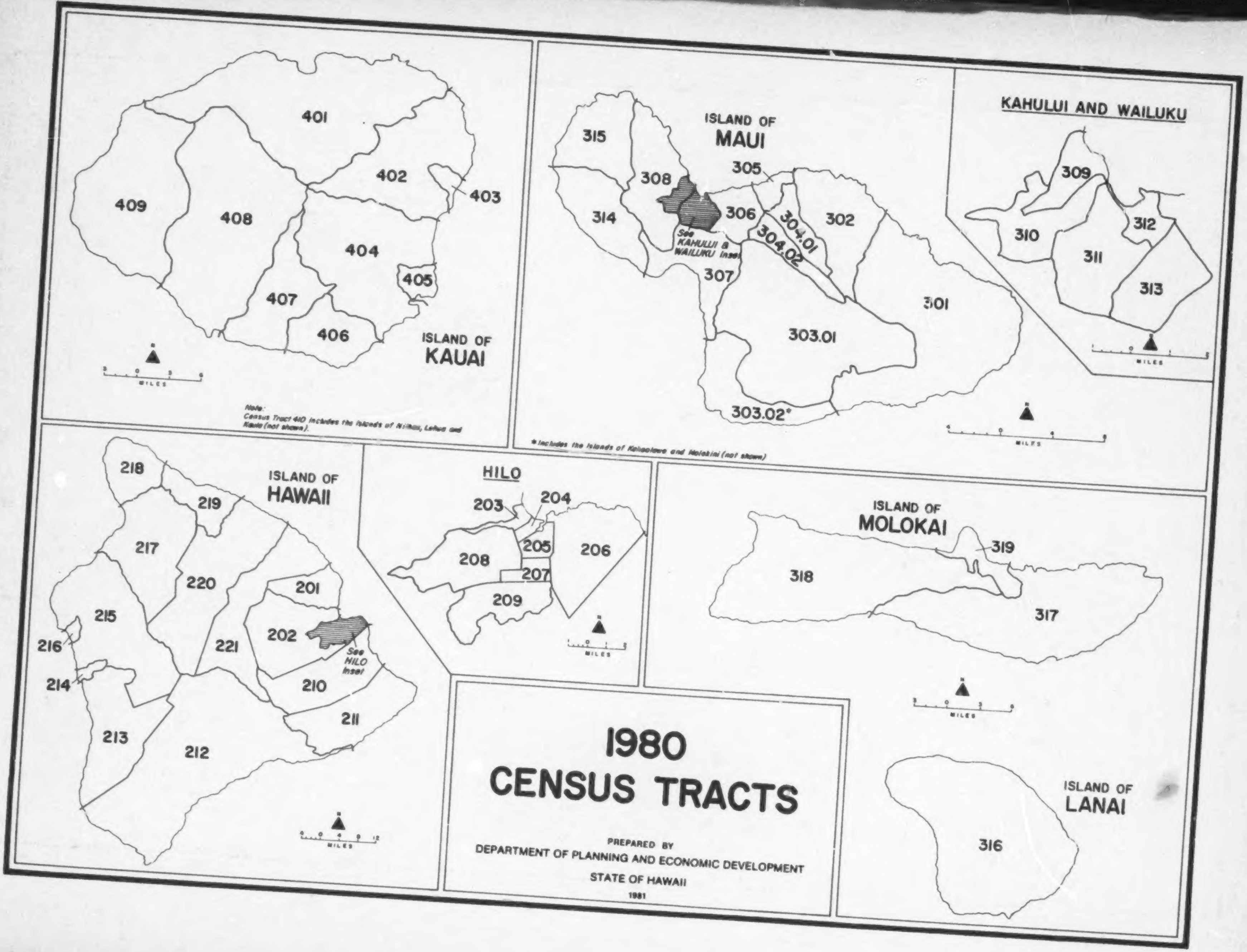
1980
CENSUS TRACTS

ISLAND OF
OAHU
HONOLULU AND VICINITY

STATE OF HAWAII
DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT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See KAHULUI & WAILUKU Inset
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MILES
KAHULUI AND WAILUKU
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MILES
ISLAND OF HAWAII
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See HILO Inset
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MILES
ISLAND OF MOLOKAI
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MILES
ISLAND OF LANAI
316

Note:
Census Tract 410 includes the Islands of Niihau, Lehua and Kaula (not shown).

* Includes the Islands of Kahoolawe and Molokini (not shown)

1980
CENSUS TRACTS

PREPARED BY
DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
STATE OF HAWAII
1981

Table 9.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA DENSITY, AND HOUSEHOLDS, 1980, FOR COUNTIES, ISLANDS AND CENSUS TRACTS

County, island and census tract 1/	Land area (acres)	Resident population			Population per acre, 1980	Households, 1980
		1980	1970	Percent change		
State total	4,112,256	964,691	769,913	25.3	0.2	294,052
City and County of Honolulu 2/	381,248	762,565	630,528	20.9	2.0	230,214
Honolulu CCD	57,899	365,048	324,871	12.4	6.3	127,139
1.02	791	2,067	1,915	7.9	2.6	599
1.03	3,040	10,784	3,243	232.5	3.5	3,462
1.04 (1.01 pt.) .	2,303	7,202	1,834	292.7	3.1	1,947
1.05 (1.01 pt.) .	1,410	5,550	5,580	0.5	3.9	1,510
2	2,757	4,970	5,123	-3.0	1.8	1,485
3	2,340	5,518	6,485	-14.9	2.4	1,696
4.01	592	2,734	1,571	74.0	4.6	804
4.02	1,646	3,438	2,898	18.6	2.1	1,064
5	710	4,711	5,253	-10.3	6.6	1,668
6	804	1,654	2,025	-18.3	2.1	556
7	239	3,350	3,794	-11.7	14.0	1,022
8	225	4,137	4,599	-10.0	18.4	1,288
9.01	223	2,621	2,773	-5.5	11.8	925
9.02	338	3,912	4,392	-10.9	11.6	1,324
9.03	156	2,932	3,514	-16.6	18.8	1,005
10	2,240	3,213	3,650	-12.0	1.4	924
11	193	4,077	4,586	-11.1	21.1	1,025
12.01	140	3,227	3,657	-11.8	23.1	1,052
12.02	161	3,593	4,231	-15.1	22.3	1,091
13	228	4,642	5,146	-9.8	20.4	1,569
14	121	2,797	2,990	-6.5	23.1	846
15	140	3,857	4,345	-11.2	27.6	1,267
16	151	4,617	4,783	-3.5	30.6	1,475
17	354	2,492	2,559	-2.6	7.0	1,358
18.01	41	1,140	1,286	-11.4	27.8	668
18.02	70	3,259	2,774	17.5	46.6	1,733
19.01	321	1,412	1,111	27.1	4.4	868
19.02	56	5,413	3,368	60.7	96.7	3,064
20.01	74	2,560	2,186	17.1	34.6	1,445
20.02	66	3,600	2,399	50.1	54.5	2,074
21	284	3,619	3,347	8.1	12.7	1,558
22	129	6,782	3,796	78.7	52.6	3,148
23	92	5,073	4,195	20.9	55.1	2,410
24.01	41	2,912	3,060	-4.8	71.0	1,293
24.02	64	3,042	2,818	7.9	47.5	1,395

Continued on next page.

Table 9.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA DENSITY, AND HOUSEHOLDS, 1980, FOR COUNTIES, ISLANDS AND CENSUS TRACTS -- Con.

County, island and census tract 1/	Land area (acres)	Resident population			Population per acre, 1980	Households, 1980
		1980	1970	Percent change		
City and County of Honolulu, con.						
Honolulu CCD, con.						
25	106	4,016	4,242	-5.3	37.9	1,885
26	170	4,819	5,163	-6.7	28.3	2,057
27.01	372	5,291	3,675	44.0	14.2	693
27.02	257	5,344	5,039	6.1	20.8	2,111
28	592	3,679	4,316	-14.8	6.2	1,202
29	285	1,583	1,591	-0.5	5.6	448
30	386	4,491	4,966	-9.6	11.6	1,611
31.01	1,324	3,923	4,403	-10.9	3.0	1,150
31.02	1,006	3,716	4,030	-7.8	3.7	1,106
32	1,449	1,132	1,218	-7.1	0.8	351
33	151	1,069	1,145	-6.6	7.1	310
34.03	86	5,074	4,267	18.9	59.0	2,564
34.04 (34.01 pt.)	66	4,511	3,114	44.9	68.3	2,203
34.05 (34.01 pt.)	43	3,014	2,771	8.8	70.1	1,689
34.06 (34.02 pt.)	61	5,238	4,010	30.6	85.9	2,553
34.07 (34.02 pt.)	30	1,033	751	37.5	34.4	618
35	184	4,399	4,308	2.1	23.9	2,198
36.01	87	4,326	2,916	48.4	49.7	2,590
36.02	92	2,661	2,654	0.3	28.9	1,246
37	458	2,477	1,349	83.6	5.4	1,401
38	292	387	523	-26.0	1.3	155
38.99 3/	...	-	314	-100.0	...	-
39	296	115	263	-56.3	0.4	73
39.99 3/	...	108	134	-19.4	...	-
40	71	820	100	720.0	11.5	498
41	168	4,320	4,097	5.4	25.7	2,240
42	64	2,637	1,162	126.9	41.2	1,524
43	329	5,339	5,628	-5.1	16.2	2,163
44	882	5,274	6,142	-14.1	6.0	1,486
45	1,988	5,042	4,780	5.5	2.5	1,800
46	1,781	3,928	4,377	-10.3	2.2	1,187
47	349	4,893	5,500	-11.0	14.0	1,495
48	845	6,146	6,608	-7.0	7.3	1,720
49	101	3,165	3,292	-3.9	31.3	982
50	132	4,075	3,973	2.6	30.9	1,368
51	47	1,611	-	...	34.3	759
52	42	858	1,405	-38.9	20.4	248

Continued on next page.

Table 9.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA DENSITY, AND HOUSEHOLDS, 1980, FOR COUNTIES, ISLANDS AND CENSUS TRACTS -- Con.

County, island and census tract 1/	Land area (acres)	Resident population			Population per acre, 1980	Households, 1980
		1980	1970	Percent change		
City and County of Honolulu, con.						
Honolulu CCD, con.						
53	85	4,529	482	839.6	53.3	1,506
54	22	1,718	1,862	-7.7	78.1	409
55	53	2,106	1,975	6.6	39.7	636
56	231	5,794	5,768	0.5	25.1	1,550
57	1,142	1,556	2,615	-40.5	1.4	752
57.99 3/	...	592	134	341.8	...	-
58	125	3,524	3,163	11.4	28.2	1,030
59	576	3,854	4,388	-12.2	6.7	1,055
59.99 3/	...	21	61	-65.6	...	-
60	179	5,663	6,711	-15.6	31.6	1,352
61	115	3,381	3,262	3.6	29.4	773
62.01	132	4,741	4,295	10.4	35.0	1,165
62.02	24	2,665	2,523	5.6	111.0	609
63.01	174	3,315	3,713	-10.7	19.1	732
63.02	124	2,945	3,083	-4.5	23.8	549
64.01	46	1,737	1,400	24.1	37.8	348
64.02	657	5,579	5,280	5.7	8.5	1,321
65	2,351	4,037	4,011	0.6	1.7	935
66	1,442	2,716	3,424	-20.7	1.9	696
67.01	4,807	7,477	7,502	-0.3	1.6	1,851
67.02	107	2,755	2,317	18.9	25.7	853
68.01	1,295	20,689	2,968	597.1	16.0	6,568
68.02	166	4,890	4,532	7.9	29.5	1,176
68.03	282	-	-	...	-	-
69	285	3,109	3,694	-15.8	10.9	913
70	716	4,251	4,899	-13.2	5.9	1,294
71	231	2,588	1,402	84.6	11.2	609
72	3,505	1,364	3,864	-64.7	0.4	155
114	1,895	31	31	0	0.02	-
Rest of Oahu	330,409	397,517	305,657	30.1	1.2	103,075
73	1,689	6,393	7,530	-15.1	3.8	1,732
73.99 3/	...	-	3,034	-100.0	...	-
74	1,335	3,138	4,016	-21.9	2.4	713
74.99 3/	...	7,593	5,070	49.8	...	-
75.01	573	7,467	4,946	51.0	13.0	2,005
75.02	5,157	444	1,496	-70.3	0.1	16
75.03	569	4,865	4,982	-2.3	8.6	1,306

Continued on next page.

Table 9.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA DENSITY, AND HOUSEHOLDS, 1980, FOR COUNTIES, ISLANDS AND CENSUS TRACTS -- Con.

County, island and census tract 1/	Land area (acres)	Resident population			Population per acre, 1980	Households, 1980
		1980	1970	Percent change		
City and County of Honolulu, con.						
Rest of Oahu, con.						
76	216	1,556	2,934	-47.0	7.2	413
77.01	314	4,645	4,880	-4.8	14.8	1,210
77.02	1,444	4,838	4,752	1.8	3.4	1,421
78.01 (78 pt. and 79)	6,818	12,813	5,559	130.5	1.9	3,527
78.02 (78 pt.) ...	3,274	11,367	895	1,165.8	3.5	4,051
80.01	229	1,498	1,268	18.1	6.5	477
80.02	268	2,987	3,347	-10.8	11.1	826
80.03	366	3,377	2,811	20.1	9.2	895
80.05	3,153	7,465	7,846	-4.9	2.4	1,839
80.06 (80.04 pt.)	443	5,906	4,349	35.8	13.3	1,427
80.07 (80.04 pt.)	378	6,473	4,708	37.5	17.1	1,591
81	1,161	2,580	3,167	-18.5	2.2	607
81.99 3/	...	-	368	-100.0	...	-
82	1,890	-	-	...	-	-
83	3,237	12,437	4,759	161.3	3.8	2,861
84	4,266	7,643	7,801	-2.0	1.8	2,026
85	3,649	2,942	3,187	-7.7	0.8	772
86.01	21,780	8,559	4,226	102.5	0.4	2,337
86.02	10,000	4,653	4,114	13.1	0.5	1,143
86.99 3/	...	21	-	...	...	-
87.01	348	7,284	5,958	22.3	20.9	1,518
87.02	266	3,854	4,509	-14.5	14.5	911
87.03	428	3,468	2,238	55.0	8.1	1,116
88	700	4,484	3,429	30.8	6.4	992
89.01	336	7,861	7,328	7.3	23.4	1,984
89.02	18,043	25,874	4,420	485.4	1.4	7,764
89.03	14,715	6,566	2,369	177.2	0.4	1,626
90	6,722	2,413	2,783	-13.3	0.4	672
91	8,365	3,339	3,410	-2.1	0.4	798
92	727	7,420	6,637	11.8	10.2	2,195
93	303	4,451	4,875	-8.7	14.7	1,429
94	432	5,040	6,048	-16.7	11.7	1,743
95.01	1,894	3,587	3,762	-4.7	1.9	887
95.02	327	5,326	4,901	8.7	16.3	1,466
95.03	451	6,076	2,566	137.3	13.5	1
95.04	211	955	1,495	-36.1	4.5	249
95.05	6,318	2,955	858	244.4	0.5	831

Continued on next page.

Table 9.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA DENSITY, AND HOUSEHOLDS, 1980, FOR COUNTIES, ISLANDS AND CENSUS TRACTS -- Con.

County, island and census tract 1/	Land area (acres)	Resident population			Population per acre, 1980	Households, 1980
		1980	1970	Percent change		
City and County of Honolulu, con.						
Rest of Oahu, con.						
96.01	10,182	5,159	4,024	28.2	0.5	1,111
96.03 (96.02 pt.)	1,760	5,711	5,100	12.0	3.2	1,439
96.04 (96.02 pt.)	5,120	4,165	4,530	-8.1	0.8	975
97	7,733	10,524	6,020	74.8	1.4	2,697
98	13,989	5,928	4,403	34.6	0.4	1,742
99.01	22,684	5,350	4,529	18.1	0.2	1,613
99.02	1,015	2,620	2,817	-7.0	2.6	753
100	46,765	1,879	1,825	3.0	0.04	478
101	19,558	4,491	3,497	28.4	0.2	1,496
102.01	16,497	3,952	3,255	21.4	0.2	1,166
102.02	8,431	5,752	3,810	51.0	0.7	1,080
103.02	2,572	3,232	3,338	-3.2	1.3	817
103.03 (103.01 pt.)	10,533	3,593	3,413	5.3	0.3	1,013
103.04 (103.01 pt. and 104)	4,653	9,784	4,776	104.9	2.1	2,737
105.01	1,046	8,712	5,501	58.4	8.3	2,501
105.03 (105.02 pt.)	147	1,804	2,033	-11.3	12.3	510
105.04 (105.02 pt.)	313	4,794	4,956	-3.3	15.3	1,236
106.01	288	3,019	3,227	-6.4	10.5	835
106.02	499	4,994	5,105	-2.2	10.0	1,374
107.01	762	3,680	2,586	42.3	4.8	1,128
107.02	1,038	3,723	3,500	6.4	3.6	907
108	3,079	11,578	7,860	47.3	3.8	1,854
108.99 3/	...	37	-	...	...	-
109.01	840	3,161	3,374	-6.3	3.8	924
109.03 (109.02 pt.)	226	4,158	4,500	-7.6	18.4	1,263
109.04 (109.02 pt.)	236	3,506	3,874	-9.5	14.9	999
109.05 (109.02 pt.)	138	2,536	2,874	-11.8	18.4	794
110	6,926	4,218	3,957	6.6	0.6	1,115
111.01	1,131	7,966	6,352	25.4	7.0	2,384
111.03 (111.02 pt.)	821	3,872	2,145	80.5	4.7	1,017
111.04 (111.02 pt.)	492	5,370	4,858	10.5	10.9	1,462
112.01	585	4,841	5,377	-10.0	8.3	1,498
112.02	333	1,663	1,832	-9.2	5.0	643
113	7,222	9,132	6,777	34.7	1.3	2,137
Hawaii County	2,583,680	92,053	63,468	45.0	0.04	29,237
201	...	5,261	5,503	-4.4	...	1,558
202	...	1,748	2,059	-15.1	...	502
203	...	4,292	3,435	24.9	...	1,744

Continued on next page.

Table 9.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA DENSITY, AND HOUSEHOLDS, 1980, FOR COUNTIES, ISLANDS AND CENSUS TRACTS -- Con.

County, island and census tract 1/	Land area (acres)	Resident population			Population per acre, 1980	Households, 1980
		1980	1970	Percent change		
Hawaii County, con.						
204	...	4,003	3,531	13.4	...	1,342
205	...	5,672	4,604	23.2	...	1,826
205.99 3/	...	25	83	-69.9	...	-
206	...	3,702	2,989	23.9	...	1,132
207	...	7,690	5,231	47.0	...	2,285
208	...	7,017	4,865	44.2	...	2,047
209	...	2,868	1,615	77.6	...	815
210	...	7,055	3,802	85.6	...	2,381
211	...	4,696	1,352	247.3	...	1,450
212	...	3,699	3,398	8.9	...	1,108
213	...	3,560	1,563	127.8	...	1,107
214	...	2,354	2,441	-3.6	...	746
215	...	7,610	2,589	193.9	...	2,525
216	...	6,138	2,243	173.7	...	2,077
217	...	4,607	2,310	99.4	...	1,483
218	...	3,249	3,326	-2.3	...	1,022
219	...	3,287	2,829	16.2	...	1,042
220	...	1,841	1,819	1.2	...	535
221	...	1,679	1,881	-10.7	...	510
Maui and Kalawao Counties	751,104	70,991	46,156	53.8	0.09	22,581
Maui and Kahoolawe ..	494,848	62,823	38,691	62.4	0.13	20,162
301	...	1,423	969	46.9	...	435
302	...	3,567	2,067	72.6	...	1,096
303.01 (303 pt.) ..	...	3,850	2,024	90.2	...	1,317
303.02 (303 pt.) ..	...	1,227	100	1,227.0	...	474
304.01 (304 pt.) ..	...	4,366	2,494	75.1	...	1,341
304.02 (304 pt.) ..	...	4,285	1,629	163.0	...	1,254
305	...	1,710	1,665	2.7	...	553
306	...	220	781	-71.8	...	92
307	...	6,020	1,636	268.0	...	2,103
307.99 3/	...	15	-	...	...	-
308	...	1,584	1,299	21.9	...	461
309	...	6,542	4,537	44.2	...	2,041
310	...	4,132	4,547	-9.1	...	1,489
311	...	10,424	5,505	89.4	...	2,967
312	...	2,602	2,782	-6.5	...	893
313	...	572	1,132	-49.5	...	174
314	...	6,654	4,171	59.5	...	2,115
315	...	3,630	1,353	168.3	...	1,357

Continued on next page.

Table 9.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA DENSITY, AND HOUSEHOLDS, 1980, FOR COUNTIES, ISLANDS AND CENSUS TRACTS -- Con.

County, island and census tract 1/	Land area (acres)	Resident population			Population per acre, 1980	Households, 1980
		1980	1970	Percent change		
Maui and Kalawao Counties, con.						
Lanai	89,280	2,119	2,204	-3.9	0.02	650
316	89,280	2,119	2,204	-3.9	0.02	650
Molokai	166,976	6,049	5,261	15.0	0.04	1,769
317	...	3,574	2,574	38.9	...	1,044
318	...	2,331	2,515	-7.3	...	654
319 (Kalawao County)	...	144	172	-16.3	...	71
Kauai County	396,224	39,082	29,761	31.3	0.10	12,020
Kauai	351,168	38,856	29,524	31.6	0.11	11,979
401	...	2,668	1,182	125.7	...	902
402	...	6,030	3,599	67.5	...	1,829
403	...	4,467	3,794	17.7	...	1,425
404	...	4,590	3,642	26.0	...	1,181
405	...	4,000	3,124	28.0	...	1,389
406	...	3,879	3,141	23.5	...	1,240
407	...	4,855	3,660	32.7	...	1,523
407.99 3/	...	-	50	-100.0	...	-
408	...	3,111	3,173	-2.0	...	947
409	...	5,256	4,159	26.4	...	1,543
Niihau	45,056	226	237	-4.6	0.01	41
410	45,056	226	237	-4.6	0.01	41

1/ Most tract boundaries either remained unchanged between 1970 and 1980 or underwent only minor changes. In cases where the 1970 tracts were split or merged for 1980, however, the 1980 tract designation is followed in parentheses by the 1970 designations.

2/ Area of census tracts fails to add to county total, because of different data sources.

3/ The ".99" census tracts consist of vessels anchored off the indicated tract; for example, persons living aboard ships in Kewalo Basin, adjacent to tract 38, are assigned to tract 38.99.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980: Summary Tape File 1A, Hawaii (1981) and 1970 Census of Population and Housing, Census Tracts, Honolulu SMSA, PHC(1)-88 (1972); acreage data by islands in The State of Hawaii Data Book 1981, table 102; acreage for Oahu census tracts from the Honolulu Department of General Planning, unpublished estimates, June 1981. The 1970 population of census tracts split between 1970 and 1980 was approximated from 1970 data for blocks and enumeration districts.

Table 10.-- RESIDENT POPULATION OF URBANIZED AREAS, OTHER URBAN PLACES, AND RURAL TERRITORY: 1960 TO 1980

Kind of area	1980	1970	1960
State total	964,691	769,913	632,772
Honolulu Urbanized Area 1/	582,463	443,749	351,336
Honolulu	365,048	324,871	294,194
Rest of urbanized area	217,415	118,878	57,142
Kailua-Kaneohe Urbanized Area 2/	105,712	...	...
Kailua 3/	35,812	33,783	24,402
Kaneohe 3/	29,919	26,998	15,291
Rest of urbanized area	39,981	...	...
Other urban places	146,417	138,692	92,932
Rural territory	130,099	126,691	148,811

1/ The Honolulu Urbanized Area consists of Honolulu District (the area southwest of the crest of the Koolau Mountains, between Red Hill and Makapuu Point) and the adjacent urbanized territory circling Pearl Harbor, as far west as Waipahu in 1960, Waipahu and Ewa Beach in 1970 and 1980, and also out to Whitmore Village and Schofield Barracks in 1980.

2/ The Kailua-Kaneohe Urbanized Area was initially defined as of 1980. It includes the urban territory on Windward Oahu, from Kahaluu through Waimanalo Beach.

3/ The 1970 totals for Kailua and Kaneohe have been adjusted to the 1980 boundaries. The 1960 totals for these places have been adjusted to the original 1970 boundaries.

Source: U.S. Census of Population: 1960, PC(1)-13A, tables 1, 8, and 10, and unpublished data for enumeration districts; U.S. Census of Population: 1970, PC(1)-A13, tables 1, 6, and 11, and correction note, and unpublished data for enumeration districts; U.S. Census of Population: 1980, PC80-1-A13, tables 7 and 13. The 1970 data recapitulated in the 1980 census bulletin have been corrected by DPED.

Table 11.-- POPULATION PROJECTIONS: 1975 TO 2000

[In thousands. The 1985-2000 data in this table are the Series II-F projections prepared in 1978 and officially recommended by the Hawaii State Department of Planning and Economic Development for planning purposes. They will be revised after the release of detailed 1980 census results.]

Year	De facto population 1/		Resident population 2/			
					Age	
	State total	Oahu	State total	Oahu	Under 15 years	65 years and over
1975 3/	941.3	752.7	884.0	714.3	213.8	54.6
1980 4/	1,052.4	821.9	965.0	762.9	226.0	76.2
1985	1,133.3	866.0	1,020.9	803.8	231.3	93.7
1990	1,229.8	917.6	1,091.5	845.0	246.4	111.7
1995	1,325.0	965.7	1,163.8	885.8	261.2	127.4
2000	1,395.3	996.2	1,225.9	917.4	273.2	142.0

1/ Including visitors present but excluding residents temporarily absent. The estimates of visitors present and residents absent are annual averages.

2/ Including armed forces stationed or homeported in Hawaii and their dependents living in Hawaii but excluding visitors present.

3/ Estimated.

4/ Census data (except de facto population, which is estimated).

Source: Hawaii State Department of Planning and Economic Development, Preliminary Intercensal Population Estimates, 1970-1980 (Statistical Report 147, July 9, 1981), tables 2 and 3 and underlying data; Revised Population and Economic Projections, 1975-2000 (March 1, 1978), pp. 4-5; and De Facto Population Projections for Counties, 1978-2000 (Statistical Memorandum 79-5, April 26, 1979).

Table 12.-- POPULATION BY AGE AND SEX: 1980

Age	All persons	Sex		Island	
		Male	Female	Oahu	Other
All ages	964,691	494,683	470,008	762,565	202,126
Under 5 years	77,848	40,004	37,844	60,154	17,694
Under 1 year	17,229	8,856	8,373	13,384	3,845
1 year	15,650	8,173	7,477	11,978	3,672
2 years	15,270	7,871	7,399	11,747	3,523
3 years	15,079	7,675	7,404	11,731	3,348
4 years	14,620	7,429	7,191	11,314	3,306
5 to 9 years	73,057	37,555	35,502	56,771	16,286
5 years	14,237	7,378	6,859	10,984	3,253
6 years	14,056	7,068	6,988	10,996	3,060
7 years	14,329	7,370	6,959	11,118	3,211
8 years	14,650	7,579	7,071	11,421	3,229
9 years	15,785	8,160	7,625	12,252	3,533
10 to 14 years	74,870	38,459	36,411	58,528	16,342
10 years	15,874	8,236	7,638	12,450	3,424
11 years	14,513	7,436	7,077	11,374	3,139
12 years	14,334	7,382	6,952	11,169	3,165
13 years	14,718	7,573	7,145	11,535	3,183
14 years	15,431	7,832	7,599	12,000	3,431
15 to 19 years	86,446	45,673	40,773	69,715	16,731
15 years	16,251	8,368	7,883	12,754	3,497
16 years	16,606	8,524	8,082	13,080	3,526
17 years	16,951	8,606	8,345	13,276	3,675
18 years	17,033	9,246	7,787	14,004	3,029
19 years	19,605	10,929	8,676	16,601	3,004
20 to 24 years	105,682	59,070	46,612	89,371	16,311
20 years	21,909	12,870	9,039	18,905	3,004
21 years	21,796	12,814	8,982	18,816	2,980
25 to 29 years	95,287	48,864	46,423	75,965	19,322
30 to 34 years	84,314	42,990	41,324	67,491	16,823
35 to 39 years	63,948	32,684	31,264	51,285	12,663
40 to 44 years	47,468	23,765	23,703	38,045	9,423
45 to 49 years	45,240	21,589	23,651	36,161	9,079
50 to 54 years	49,204	23,298	25,906	38,614	10,590
55 to 59 years	47,383	23,502	23,881	36,645	10,738
60 to 64 years	37,794	18,871	18,923	28,452	9,342
65 to 69 years	29,153	15,384	13,769	21,457	7,696
70 to 74 years	20,222	10,991	9,231	14,475	5,747
75 to 79 years	13,673	6,796	6,877	9,901	3,772
80 to 84 years	7,541	3,177	4,364	5,527	2,014
85 years and over ..	5,561	2,011	3,550	4,008	1,553

Continued on next page.

Table 12.-- POPULATION BY AGE AND SEX: 1980 -- Con.

Age	All persons	Sex		Island	
		Male	Female	Oahu	Other
18 years and over ..	689,108	353,167	335,941	548,002	141,106
62 years and over ..	97,582	48,960	48,622	71,399	26,183
65 years and over ..	76,150	38,359	37,791	55,368	20,782
Median	28.3	27.6	29.1	28.0	29.6

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 19.

Table 13.-- RESIDENT POPULATION, BY AGE: 1980 AND 1981

[Population numbers in thousands.]

Age	April 1, 1980 1/	July 1, 1981 2/	Percent distribution		Percent change, 1980-1981
			1980	1981	
All ages	965	981	100.0	100.0	1.6
Under 5 years	78	82	8.1	8.4	5.3
5 to 17 years	198	195	20.5	19.9	-1.3
18 to 44 years	433	442	44.9	45.1	2.1
45 to 64 years	180	180	18.7	18.3	0.2
65 years and over	76	81	7.9	8.3	5.9
14 years and over	755	767	78.2	78.2	1.6
18 years and over	689	703	71.4	71.7	2.1
21 years and over	631	645	65.4	65.7	2.3

1/ Advance count from 1980 census.
2/ Provisional estimate.
Source: U.S. Bureau of the Census, "Estimates of the Population of States, by Age: July 1, 1981," Current Population Reports, Population Estimates and Projections, Series P-25, No. 13, May 1982.

Table 14.-- AGE, SEX AND MILITARY STATUS: 1980

[Excludes persons in institutions, military barracks, Kalawao, or Niihau. Based on a sample survey of 14,407 persons.]

Age in years	Total	Armed forces		Military dependents		Other civilians	
		Male	Female	Male	Female	Male	Female
All ages ..	930,271	33,082	1,932	18,983	44,410	410,519	421,345
Under 5	72,800	-	-	8,114	8,080	29,194	27,412
5 to 9	69,720	-	-	4,877	6,138	30,657	28,048
10 to 14	79,583	-	-	3,533	3,021	39,107	33,921
15 to 19	83,584	1,037	-	1,901	2,775	38,526	39,345
20 to 24	84,035	8,612	882	379	6,403	30,001	37,758
25 to 29	86,154	8,314	799	134	6,850	35,130	34,927
30 to 34	77,735	6,987	168	44	5,282	31,421	33,833
35 to 39	55,713	4,255	84	-	2,897	22,415	26,062
40 to 44	46,180	2,488	-	-	1,439	19,820	22,432
45 to 49	44,725	1,170	-	-	630	20,766	22,159
50 to 54	49,174	134	-	-	212	20,765	28,062
55 to 59	48,672	84	-	-	180	25,246	23,162
60 to 64	42,032	-	-	-	84	21,051	20,897
65 to 69	35,365	-	-	-	168	18,681	16,516
70 to 74	21,868	-	-	-	84	12,028	9,756
75 and over	24,461	-	-	-	-	11,896	12,566
Age not reported	8,471	-	-	-	168	3,815	4,488
Under 18 1/	277,825	691	-	17,779	18,904	124,639	115,585
18 and over 1/ .	643,975	32,391	1,932	1,204	25,338	282,065	301,272
65 and over	81,694	-	-	-	252	42,605	38,838
Median (years) .	29.1	29.1	25.5	6.4	21.7	30.1	31.0

1/ Interpolated from data by 5-year age groups.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 15.-- ETHNIC STOCK BY MILITARY STATUS: 1980

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 14,407 persons.]

Ethnic stock 1/	Total		Armed forces	Military dependents	Other civilians
	Number	Percent			
All groups	930,271	100.0	35,098	63,309	831,864
Unmixed	676,344	72.7	33,494	54,272	588,576
Caucasian	244,832	26.3	26,527	39,387	178,918
Japanese	218,176	23.5	442	1,804	215,930
Chinese	47,275	5.1	128	432	46,716
Filipino	104,547	11.2	1,720	3,939	98,889
Hawaiian	9,366	1.0	-	-	9,366
Korean	11,803	1.3	-	503	11,300
Negro	11,799	1.3	3,621	4,873	3,304
Puerto Rican	6,649	0.7	212	718	5,719
Samoan	11,173	1.2	594	1,484	9,095
Other unmixed or unknown	10,723	1.2	251	1,133	9,339
Mixed	253,927	27.3	1,604	9,037	243,288
Part Hawaiian	166,087	17.9	659	1,343	164,086
Non Hawaiian	87,840	9.4	945	7,694	79,202

1/ Definitions used in this table differ widely from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 16.-- POPULATION BY RACE AND SPANISH ORIGIN, BY COUNTIES: 1980

Race and Spanish origin	State total	City & Co. of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
Total persons	964,691	762,565	92,053	144	39,082	70,847
Race: 1/						
White	318,770	252,455	31,316	23	11,147	23,829
Black	17,364	16,843	286	-	66	169
American Indian	2,655	2,088	315	-	75	177
Eskimo	68	57	6	-	1	4
Aleut	45	27	12	-	2	4
Japanese	239,748	189,828	24,476	20	9,775	15,649
Chinese	56,285	52,814	1,672	6	520	1,273
Filipino	133,940	97,565	12,709	24	10,237	13,405
Korean	17,962	16,880	580	3	136	363
Asian Indian	604	543	25	-	12	24
Vietnamese	3,463	3,293	127	-	5	38
Hawaiian	115,500	80,172	17,274	59	5,704	12,291
Guamanian	1,677	1,559	68	-	20	30
Samoan	14,073	13,811	132	3	33	94
Other	42,537	34,630	3,055	6	1,349	3,497
Spanish origin:						
Spanish origin	71,263	54,561	8,194	8	3,270	5,230
Mexican	8,656	7,317	602	-	282	455
Puerto Rican	19,351	13,251	3,213	1	966	1,920
Cuban	392	356	18	-	4	14
Other Spanish	42,864	33,637	4,361	7	2,018	2,841
Not of Spanish origin ..	893,428	708,004	83,859	136	35,812	65,617

1/ Persons of mixed race classified by self-identification or race of mother. Data are not comparable either to earlier censuses or to such surveys as the Hawaii Health Surveillance Program. The latter survey reported that 27.3 percent of the population in households in 1980 was of mixed race (17.9 percent Part Hawaiian and 9.4 percent non-Hawaiian).

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), tables 15 and 16.

Table 17.-- PLACE OF BIRTH BY MILITARY STATUS: 1980

[Excludes persons in institutions, military barracks, Kalawao or Niihau. Based on a sample survey of 14,407 persons.]

Place of birth	All groups	Armed forces	Military dependents	Other civilians
Total	930,271	35,098	63,309	831,864
Native born	794,667	32,496	52,605	709,566
Hawaii	581,300	2,005	12,026	567,269
Mainland U.S.	203,334	29,813	39,614	133,907
American Samoa	6,548	383	211	5,954
Other terr. or poss.	3,485	295	754	2,436
Foreign born	122,243	2,307	10,092	109,843
China	9,029	-	515	8,514
Indo-China 1/	5,664	-	503	5,161
Japan	24,659	84	1,889	22,686
Korea	6,516	-	838	5,678
Philippines	58,227	1,173	3,184	53,869
Other foreign	18,147	1,050	3,163	13,935
Not reported	13,361	295	612	12,454

1/ Cambodia, Laos, or Vietnam.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 18.-- NATIVITY AND LANGUAGE: 1980

Nativity and language	Number
NATIVITY AND PLACE OF BIRTH	
Total persons	964,691
Native	829,686
Born in state of residence	557,661
Born in different state	248,885
Born abroad, at sea, etc.	23,140
Foreign born	135,005
LANGUAGE SPOKEN AT HOME AND ABILITY TO SPEAK ENGLISH	
Persons 5 to 17 years	198,254
Speak only English at home	169,671
Speak a language other than English at home	28,583
Spanish language spoken at home	1,118
Speak English very well or well	1,040
Speak English not well or not at all	78
Other language spoken at home	27,465
Speak English very well or well	23,416
Speak English not well or not at all	4,049
Persons 18 years and over	688,653
Speak only English at home	490,407
Speak a language other than English at home	198,246
Spanish language spoken at home	9,952
Speak English very well or well	9,350
Speak English not well or not at all	602
Other language spoken at home	188,294
Speak English very well or well	150,127
Speak English not well or not at all	38,167

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Provisional Estimates of Social, Economic, and Housing Characteristics, PHC80-S1-1 (March 1982), p. 15.

Table 19.--CITIZENSHIP: 1980

[Excludes persons in military barracks, institutions, Kalawao, or Niihau. Based on a sample survey of 14,407 persons.]

Subject	All categories	U.S. citizens		U.S. nationals	Aliens	Status not reported
		Native born 1/	Naturalized			
Total	930,271	807,259	41,127	2,382	48,605	30,897
County:						
Honolulu	730,171	628,904	33,183	2,341	39,454	26,289
Hawaii	91,221	83,661	2,794	23	2,182	2,561
Kauai	38,269	33,071	1,928	18	2,329	923
Maui	70,609	61,623	3,222	-	4,640	1,124
Age:						
Under 6 years	86,545	83,828	230	-	1,154	1,333
6 to 16 years	170,721	158,833	1,542	360	7,235	2,751
17 to 24 years	132,456	116,411	3,642	613	7,932	3,856
25 to 44 years	265,781	226,856	13,692	786	15,588	8,860
45 to 64 years	184,603	157,802	11,390	600	8,044	6,767
65 years and over	81,694	58,282	10,306	23	8,555	4,528
Not reported	8,471	5,248	326	-	96	2,802
Years in Hawaii:						
Under 1 year	50,260	44,107	900	-	3,484	1,768
1 to 4 years	158,722	130,550	3,390	348	18,959	5,475
5 to 9 years	110,639	87,013	6,589	752	11,909	4,376
10 to 19 years	186,957	162,016	12,304	840	6,164	5,632
20 years and over	404,476	373,572	16,496	275	7,464	6,670
Not reported	19,217	10,000	1,449	168	626	6,974
Residence 1 year ago: 2/						
Hawaii	870,144	759,580	39,804	2,382	44,107	24,272
Mainland U.S.	30,082	27,720	658	-	725	980
U.S. terr. or poss. ..	944	335	84	-	253	272
Foreign country	6,286	2,090	262	-	3,334	600
Not reported	8,384	3,104	320	-	187	4,773

1/ Includes U.S. citizens of unspecified type.

2/ For persons one year of age and older.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 20.-- ALIENS WHO REPORTED UNDER THE ALIEN ADDRESS PROGRAM BY STATUS AND NATIONALITY: 1970, 1979, AND 1980

[Data not available after 1980. The 1981 registration data were never tabulated, and the law requiring aliens to report their addresses annually was repealed on December 29, 1981.]

Status and nationality	1970	1979	1980
Total aliens	53,003	69,622	73,018
Status:			
Permanent residents	48,164	62,922	63,045
Other than permanent 1/	4,839	6,700	9,973
Nationality: 2/			
Australia	274	418	464
Canada	1,568	1,861	2,064
China 3/	2,213	3,485	2,127
Germany	691	687	686
Japan	15,351	13,090	13,029
Korea	1,138	6,123	6,527
Laos	23	602	973
Philippines	26,311	33,163	34,597
Samoa, Western	265	651	573
Taiwan 3/	...	437	932
Thailand	168	601	638
United Kingdom 4/	1,548	1,939	2,546
Vietnam	99	1,732	2,649
Other nationalities	3,048	4,070	4,369
Stateless	20	44	291
Unknown	286	719	553
Aliens as percent of resident population 5/	6.9	7.4	7.6

1/ Includes commuter workers (95 in 1980), visitors (816), crewmen (107), students (1,819), exchange aliens (507), refugees (2,351), and others (4,278).

2/ Shown separately for nationalities over 400 in 1980.

3/ Taiwan included with China before 1979.

4/ Including Hong Kong.

5/ Based on April 1 population data (1979 estimated).

Source: U.S. Department of Justice, Immigration and Naturalization Service, records.

Table 21.-- GENERAL POPULATION CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total	City & Co. of Honolulu	Other counties: Hawaii	Other counties: Kalawao	Other counties: Kauai	Other counties: Maui
RESIDENT POPULATION						
Total persons	964,691	762,565	92,053	144	39,082	70,847
Percent:						
Change 1970-80	25.3	20.9	45.0	-16.3	31.3	54.1
Under 18 years	28.6	28.1	30.6	0	30.5	29.5
18 to 64 years	63.5	64.6	59.2	74.3	58.4	60.5
65 years and over	7.9	7.3	10.2	25.7	11.1	9.9
Median age	28.3	28.0	29.4	58.1	29.8	29.6
Fertility ratio 1/	307	295	370	0	369	328
15 years and over - Percent now married, including separated:						
Male	56.3	55.7	59.2	51.7	59.9	58.2
Female	58.3	57.8	60.6	54.4	62.3	59.1
In group quarters:						
Total	39,599	36,700	1,617	40	403	839
Percent of total persons	4.1	4.8	1.8	27.8	1.0	1.2
HOUSEHOLDS						
Total	294,052	230,214	29,237	71	12,020	22,510
Percent change, 1970-80 ...	44.8	39.7	69.4	(NA)	45.1	76.1
Persons per household	3.15	3.15	3.09	1.46	3.22	3.11

1/ Children under 5 years per 1,000 women 15 to 49 years.

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 14.

Table 22.-- HOUSEHOLD TYPE AND RELATIONSHIP: 1980

Household type and relationship	Number
Total persons	964,691
In households	925,092
Householder	294,052
Family householder: Male	190,426
Female	35,609
Nonfamily householder: Male	37,333
Female	30,684
Spouse	185,698
Child	330,281
Brother or sister	11,115
Parent	11,493
Other relative	50,361
Nonrelatives	42,092
In group quarters	39,599
Inmate of institution	5,785
Other	33,814
Persons 75 years and over living alone	5,075
Persons per household	3.15
Persons per family	3.61
Persons under 18 years	275,583
Householder or spouse	387
Own child	243,671
In married-couple family	204,455
With female householder, no husband present	32,392
With male householder, no wife present	6,824
Other relatives	25,918
Nonrelatives	3,985
Inmate of institution	387
Other, in group quarters	1,235
Persons 65 years and over	76,150
Family householder: Male	25,453
Female	3,959
Spouse	13,763
Other relatives	14,015
Nonrelatives	1,887
Nonfamily householder: Male	4,670
Female	8,705
Inmate of institution	2,961
Other, in group quarters	737

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 23.-- FAMILY TYPE BY PRESENCE OF OWN CHILDREN: 1980

Presence of own children	All families	Married couple families	Female householder no husband present
Total	226,035	185,698	29,422
With own children under 18 years	132,087	101,644	17,410
With own children under 6 years only	32,604	27,528	4,131
With own children under 6 and 6 to 17 years	25,070	21,883	2,779
Number of own children under 18 years	243,671	204,455	32,392
Number of own children under 6 years	79,619	68,656	9,230

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 24.-- MARITAL STATUS, BY SEX: 1980

Marital status	Male	Female
Persons 15 years and over	378,665	360,251
Single	137,448	94,160
Now married, except separated	208,968	204,446
15 to 24 years	14,245	20,190
25 to 34 years	52,447	57,853
35 to 44 years	43,177	41,992
45 to 64 years	71,007	68,766
65 years and over	28,092	15,645
Separated	4,354	5,639
Widowed	7,198	29,220
Divorced	20,697	26,786

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 25.-- RELIGION: 1976 AND 1979

[Because of differences in questionnaire design, 1976 and 1979 data may not be directly comparable.]

Religious affiliation	Percent of persons surveyed		Percent of group active: June 1976 1/
	September 1979 2/	June 1976 1/	
All groups	100.0	100.0	41
Atheist, agnostic ..	4.5	3.1	11
Buddhist	11.8	10.7	33
Catholic	31.1	30.5	49
Jewish	0.3	0.5	19
Mormon	2.5	7.8	59
Protestant	34.2	23.5	42
Other	15.6	23.8	32

1/ Based on a sample of 4,309 persons on six islands, surveyed by the Oahu Public Communications Council of the Church of Jesus Christ of Latter-day Saints.

2/ Based on a sample of 1,335 persons on six islands, surveyed by the Hawaii Public Communications Council of the Church of Jesus Christ of Latter-day Saints.

Source: Oahu Public Communications Council of the Church of Jesus Christ of Latter-day Saints, The Purpose of Life Survey (pamphlet, 1976), and underlying printouts; Hawaii Public Communications Council of the Church of Jesus Christ of Latter-day Saints, "Religion Survey for BYU-HC" (printout of September 1979 survey).

Table 26.-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION BY MILITARY STATUS: 1970 TO 1980 AND 1980 TO 1981

Period and component	All groups	Armed forces	Civilian population			
			Military dependents	Not military dependents		
				Number	Annual average	Percent distrib.
1970 TO 1980 1/						
Net change	+194,778	+1,911	+2,165	+190,702	+19,070	100.0
Natural increase	118,654	-447	35,679	83,422	8,342	43.7
Live births	161,831	-	37,234	124,597	12,460	...
Deaths	43,177	447	1,555	41,175	4,118	...
Net military separations 2/.	-	-1,815	-	+1,815	+182	1.0
Net migration	+76,124	+4,173	-33,514	+105,465	+10,546	55.3
1980 TO 1981 3/						
Net change	+16,000	-500	+300	+16,100	+12,900	100.0
Natural increase	16,600	0	4,400	12,300	9,800	76.1
Live births	22,700	-	4,600	18,100	14,500	...
Deaths	6,100	0	200	5,800	4,700	...
Net military separations 2/.	-	-200	-	+200	+100	0.9
Net migration	-600	-300	-4,100	+3,700	+3,000	22.9

1/ April 1, 1970 to March 31, 1980. Revised from Data Book 1981, table 25.
2/ Separations less inductions for armed forces.
3/ April 1, 1980 to June 30, 1981. Provisional estimates.
Source: Estimates by the Hawaii State Department of Planning and Economic Development based on data from the U.S. Bureau of the Census, armed forces, and Hawaii State Department of Health.

Table 27.-- INTENDED RESIDENTS ARRIVING IN HAWAII FROM THE MAINLAND UNITED STATES: 1971 TO 1981

Calendar year	Number arriving, by military status			
	Total	Military personnel	Military dependents	Other civilians
1971	41,562	9,355	8,649	23,558
1972	44,388	10,267	11,637	22,484
1973	36,886	9,200	6,180	21,506
1974	37,007	9,421	8,744	18,842
1975	39,233	10,006	10,887	18,340
1976	40,690	10,991	10,518	19,181
1977	43,617	12,361	12,771	18,485
1978 1/ .	39,476	12,294	11,783	15,399
1979 1/ .	22,559	5,283	4,699	12,577
1980 1/ .	13,922	5,559	5,097	3,266
1981 1/ .	18,134	6,981	7,694	3,459

Calendar year	Persons per party	High status 2/ (percent)	Median age (years)	From West Coast 3/ (percent)
1971	1.48	64.2	24.3	38.6
1972	1.57	64.7	24.1	35.1
1973	1.40	61.6	24.2	39.1
1974	1.53	67.4	24.2	42.4
1975	1.58	67.3	23.6	35.1
1976	1.55	67.1	24.3	34.1
1977	1.64	70.2	24.0	30.1
1978 1/ .	1.63	70.3	24.4	29.9
1979 1/ .	1.58	68.7	25.7	37.6
1980 1/ .	1.70	72.8	23.9	22.5
1981 1/ .	1.83	71.6	24.1	23.0

1/ Totals for 1978 and later years apparently reflect changes in passenger response rates resulting from a redesigned questionnaire introduced in July 1978 and withdrawn in July 1979. It is likely that the number of intended residents arriving during these years was significantly higher than the totals shown here.

2/ Party heads classified as professional, technical, business, managerial, or official as a percent of all party heads reporting civilian occupations.

3/ Persons from California, Oregon, or Washington State as a percent of all persons reporting previous residence.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's In-Migrants (annual).

Table 28.-- IMMIGRANTS ADMITTED, BY COUNTRY OF BIRTH: 1970 TO 1979

[For years ended June 30 through 1976 and September 30 thereafter. Data refer to immigrants admitted to the U.S., reporting Hawaii as their State of intended permanent residence.]

Year	Total 1/	Canada	China and Taiwan	Japan
1970 2/	9,013	90	423	363
1971	6,055	81	271	409
1972	6,765	92	392	603
1973	6,881	64	455	544
1974	6,549	64	429	464
1975	7,012	87	555	587
1976	7,789	110	631	556
1976, July-Sept. ..	1,882	45	153	(OC)
1977	7,825	175	527	495
1978	9,053	223	409	394
1979	8,944	135	586	365

Year	Korea	Philippines	Vietnam 1/	Other countries
1970 2/	596	6,426	1,115	
1971	568	3,704	1,022	
1972	868	3,764	1,046	
1973	1,305	3,179	1,334	
1974	1,127	3,418	1,047	
1975	1,476	2,913	196	1,198
1976	1,515	3,222	341	1,414
1976, July-Sept. ..	278	859	(OC)	547
1977	1,488	3,568	137	1,435
1978	965	4,398	1,136	1,528
1979	1,192	5,016	286	1,364

OC Included with "other countries."

1/ Data exclude Vietnamese refugees still in parole status at the end of each reporting period. Such persons are counted when adjusted under the Immigration and Nationality Act.

2/ Because of a change in tabulation procedures in 1970, officials have noted the possibility of some double-counting in the data for this year.

Source: U.S. Immigration and Naturalization Service, Annual Report for 1970-1977, and records.

Table 29.-- PERSONS NATURALIZED, BY COUNTRIES OF FORMER ALLEGIANCE: 1970 TO 1979

[Years ended June 30 through 1976, 3-month period ended September 30, 1976, and years ended September 30, 1977 and later.]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	All other
1970	2,658	110	199	902	110	1,337
1971	2,135	114	221	853	70	877
1972	2,389	230	236	1,096	64	763
1973	2,099	226	260	944	72	597
1974	2,833	238	310	1,505	78	702
1975	3,094	268	537	1,530	97	662
1976	3,130	278	649	1,462	107	634
1976, 3 mo. ..	1,118	97	161	593	53	214
1977	4,532	373	699	2,479	135	846
1978	3,672	289	611	2,055	85	632
1979	4,384	500	771	2,251	101	761

Source: U.S. Immigration and Naturalization Service, Annual Report for 1970-1977 and records.

Table 30.-- IN-MIGRATION, TOTAL AND CIVILIAN, BY ORIGIN: 1971 TO 1980

[Hawaii residents reporting different state or country of residence 1 year prior to survey. Excludes persons in institutions or military barracks.]

Military status and year surveyed	Number, 1 year old and over			Percent of surveyed population 1/		
	All in-migrants	From U.S. Mainland	From other countries 2/	All in-migrants	From U.S. Mainland	From other countries 2/
Total:						
1971	63,452	51,693	11,759	8.3	6.8	1.5
1972	51,818	41,043	10,775	6.6	5.2	1.4
1973	52,267	43,608	8,659	6.4	5.4	1.0
1974	43,233	34,007	9,226	5.3	4.2	1.1
1975	43,955	34,468	9,487	5.2	4.1	1.1
1976	42,977	33,611	9,366	5.0	3.9	1.1
1977	50,403	41,310	9,093	5.9	4.8	1.1
1978	49,295	39,970	9,325	5.7	4.6	1.1
1979	42,690	33,646	9,044	4.9	3.9	1.0
1980	37,312	30,082	7,230	4.0	3.2	0.8
Civilian: 3/						
1971	30,103	22,333	7,770	4.6	3.4	1.2
1972	22,902	16,948	5,954	3.3	2.5	0.8
1973	21,682	16,762	4,920	3.1	2.4	0.7
1974	19,740	13,402	6,338	2.7	1.8	0.9
1975	20,557	13,886	6,671	2.8	1.9	0.9
1976	27,042	20,176	6,866	3.5	2.6	0.9
1977	25,477	19,555	5,922	3.4	2.6	0.8
1978	26,041	19,820	6,221	3.4	2.6	0.8
1979	22,191	15,278	6,913	2.8	1.9	0.9
1980	18,471	13,255	5,216	2.2	1.6	0.6

1/ Base includes persons under 1 and those not reporting residence one year earlier.

2/ Includes U.S. territories and possessions.

3/ Excludes military dependents.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulations.

Table 31.-- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: 1980

[Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on a sample survey of 14,174 persons.]

Place of residence one year earlier	All groups	Armed forces	Military dependents	Other civilians
Population 1 and over	915,841	35,098	59,604	821,138
Same house	784,765	20,916	40,907	722,942
Different house, same island	79,654	6,937	6,848	65,869
Different island	5,725	-	84	5,641
Different state	30,082	6,279	10,549	13,255
U.S. territory or possession	944	168	419	358
Different country	6,286	714	714	4,858
Previous residence not reported .	8,384	84	84	8,216
Migrants 1/	37,312	7,161	11,682	18,471
Percent of number reporting ...	4.1	20.5	19.6	2.3

1/ From different state, territory, or country.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Section 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, diseases and accidents, nutrition, substance abuse, height and weight, hospitals, dental care, and health personnel.

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth in 1980 was 74.8 years for males and 81.2 years for females. The crude death rate in 1981 was only 5.4 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 10.5 in 1981. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for almost one-fourth. The 1981 crude birth rate was 18.6 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,461 in 1970 and 1,903 in 1980. Over 98 percent of all babies were born in hospitals in 1980, and almost one-fifth were born to military couples. One out of six births was illegitimate. There were 8,178 fetal deaths in 1980, including 6,462 elective abortions. Marriages numbered 12,218 in 1981, with about 23 percent accounted for by nonresidents. Divorces reached a 1981 total of 4,254. The State had 22 acute care civilian hospitals (with 2,316 beds), 57 skilled nursing and intermediate care facilities (with 4,532 beds), 24 special treatment facilities (with 609 beds) and 296 care homes (with 1,532 beds) in 1980. There were 1,707 physicians and surgeons, 686 dentists, 5,925 professional nurses, and 387 pharmacists licensed and living in Hawaii as of March 1982. Acute conditions per 100 persons numbered 169 in 1980, with respiratory conditions the most common complaint (at 114 cases per 100 persons). Among chronic conditions reported in the 1980 survey data, the most frequently mentioned were hypertension without heart involvement (7.6 per 100 persons), hay fever (5.4), and asthma (3.0). The most common communicable disease reported to authorities in 1980 was scarlet fever, with 5,102 cases. State mental health facilities served 10,625 patients in 1980, but the number of in-patients at the end of the year was only 440. Dental health was only fair: according to a 1979 survey, 275,000 had not visited a dentist within the previous year, and 176,000 persons reported one or more dental problems, chiefly cavities. Among persons 12 years old and over in 1979, 55 percent had used alcohol in the preceding month, 33 percent had smoked cigarettes, 14 percent had used marijuana, and 5 percent had used cocaine. The average adult male was 67.5 inches tall and weighed 159.5 lbs.; the average adult female was 62.6 inches and 127.9 lbs.

Major sources for data on vital statistics and health are the annual statistical reports of the Hawaii State Department of Health and various publications of the U.S. Public Health Service. Long-term trends are traced in Historical Statistics of Hawaii, Section 2. Sections 2 and 4 of the Statistical Abstract of the United States: 1981 contain similar data for the nation as a whole.

Table 32.-- BIRTHS AND DEATHS: 1970 TO 1981

[Place of occurrence basis.]

Calendar year	Births	Deaths 1/	Rates per 1,000 resident population 2/		Rates per 1,000 live births		
			Births	Deaths 1/	Illegitimate births	Fetal deaths 3/	Infant deaths 4/
1970 ...	16,467	4,197	21.2	5.4	95.8	20.6	19.1
1971 ...	15,845	4,351	19.8	5.4	88.4	23.5	16.0
1972 ...	15,413	4,483	18.6	5.4	93.0	22.8	17.5
1973 ...	15,358	4,579	18.0	5.4	104.0	16.4	13.7
1974 ...	15,528	4,598	17.9	5.3	108.8	16.3	16.0
1975 ...	15,766	4,572	17.8	5.2	123.2	18.9	13.7
1976 ...	16,409	4,717	18.2	5.2	125.0	20.8	11.2
1977 ...	16,983	4,725	18.5	5.2	143.3	21.6	12.3
1978 ...	16,762	4,860	18.0	5.2	160.1	13.5	12.0
1979 ...	17,568	5,138	18.5	5.4	163.5	13.1	10.9
1980 ...	18,216	5,204	18.8	5.4	175.6	15.3	10.8
1981 ...	18,230	5,269	18.6	5.4	181.8	13.1	10.5

1/ Includes armed forces.

2/ Based on intercensal estimates in the Hawaii State Department of Planning and Economic Development, "Preliminary Intercensal Population Estimates, 1970-1980" (Statistical Report 147, July 9, 1981), table 1, and postcensal estimates in U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 911, April 1982.

3/ 20 weeks gestation and over. Includes elective abortions.

4/ Under 1 year of age.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R & S Report, No. 5 (June 1974); Statistical Report for 1973-1981; and records.

Table 33.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS: 1970 TO 1981

[Place of occurrence basis.]

Subject	All groups	Armed forces	Civilians: All civilians	Civilians: Military dependents	Civilians: Other civilians	Armed forces and dependents
Live births:						
1970	16,467	-	16,467	3,828	12,639	3,828
1971	15,845	-	15,845	3,668	12,177	3,668
1972	15,413	-	15,413	3,543	11,870	3,543
1973	15,358	-	15,358	3,739	11,619	3,739
1974	15,528	-	15,528	3,774	11,754	3,774
1975	15,766	-	15,766	3,821	11,945	3,821
1976	16,409	-	16,409	3,803	12,606	3,803
1977	16,983	-	16,983	3,771	13,212	3,771
1978	16,762	-	16,762	3,656	13,106	3,656
1979	17,568	-	17,568	3,797	13,771	3,797
1980	18,216	-	18,216	3,750	14,466	3,750
1981	18,230	-	18,230	3,502	14,728	3,502
Deaths:						
1970	4,197	72	4,125	139	3,986	211
1971	4,351	47	4,304	150	4,154	197
1972	4,483	50	4,433	160	4,273	210
1973	4,579	70	4,509	169	4,340	239
1974	4,598	49	4,549	165	4,384	214
1975	4,572	83	4,489	153	4,336	236
1976	4,717	67	4,650	161	4,489	228
1977	4,724	76	4,648	157	4,491	233
1978	4,852	80	4,772	147	4,625	227
1979	5,137	85	5,052	155	4,897	240
1980	5,204	69	5,135	154	4,981	223
1981	5,269	73	5,196	154	5,042	227
Birth rate: 1/						
1970	20.5	0	22.0	66.2	18.3	34.5
1971	19.0	0	20.3	59.0	16.9	32.5
1972	17.7	0	18.9	53.5	15.8	30.0
1973	17.1	0	18.2	53.2	15.0	29.1
1974	16.8	0	17.9	55.3	14.7	30.0
1975	16.7	0	17.9	60.0	14.6	31.1

Continued on next page.

Table 33.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS: 1970 TO 1981 - Con.

[Place of occurrence basis.]

Subject	All groups	Armed forces	Civilians			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Birth rate -- Con.: 1/						
1976	16.9	0	18.0	56.8	14.9	30.5
1977	17.2	0	18.2	58.0	15.2	31.0
1978	16.6	0	17.6	59.8	14.7	30.6
1979	16.9	0	17.9	58.9	15.0	31.0
1980	17.3	0	18.3	58.5	15.5	30.7
1981	17.1	0	18.1	54.5	15.6	29.0
Death rate: 1/						
1970	5.2	1.4	5.5	2.4	5.8	1.9
1971	5.2	0.9	5.5	2.4	5.8	1.7
1972	5.2	1.0	5.4	2.4	5.7	1.8
1973	5.1	1.2	5.4	2.4	5.6	1.9
1974	5.0	0.9	5.3	2.4	5.5	1.7
1975	4.9	1.4	5.1	2.4	5.3	1.9
1976	4.9	1.2	5.1	2.4	5.3	1.8
1977	4.8	1.3	5.0	2.4	5.2	1.9
1978	4.8	1.4	5.0	2.4	5.2	1.9
1979	4.9	1.5	5.1	2.4	5.3	2.0
1980	4.9	1.2	5.1	2.4	5.3	1.8
1981	4.9	1.3	5.2	2.4	5.3	1.9

1/ Per 1,000 de facto population, from present report, tables 2 and 3.

Source: Hawaii State Department of Planning and Economic Development, Fluctuations in Island Birth Rates and Some of Their Consequences (Hawaii Economic Research Reports, 1980), table 5; Hawaii State Department of Health, Statistical Report (annual), and records. Deaths of military dependents based on an assumed rate of 2.41, as calculated from 1970 data on the age composition of military dependents and age-specific death rates for the total civilian population.

Table 34.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1980

Type of rate and military status 1/	1960	1970	1980
Crude birth rate, all groups 2/	27.2	21.4	18.8
Civilian	22.9	19.1	16.6
Military	48.8	35.1	33.7
General fertility rate, all groups 3/	127.8	96.1	78.8
Civilian	106.2	84.8	68.5
Military	250.5	169.5	157.2
Total fertility rate, all groups 4/	3,886.5	2,728.5	2,090.5
Civilian	3,360.5	2,461.5	1,903.5
Military	6,480.5	4,275.0	3,789.5
Gross reproduction rate, all groups 5/ ...	1,884.0	1,318.0	1,009.0
Civilian	1,628.0	1,189.5	919.0
Military	3,140.0	2,065.5	1,830.0

Military status and year 1/	Age-specific fertility rates 2/					
	15-19	20-24	25-29	30-34	35-39	40-44
All groups:						
1960	75.4	284.3	221.0	125.1	54.8	15.8
1970	62.5	173.8	169.8	91.7	38.5	8.8
1980	51.1	125.6	122.3	82.9	30.4	5.5
Civilian:						
1960	55.8	229.1	204.3	116.1	52.0	14.8
1970	56.3	151.9	158.0	81.3	36.6	8.2
1980	37.7	100.9	121.7	83.3	31.7	5.1
Military:						
1960	257.9	464.7	297.6	164.6	74.1	37.2
1970	135.1	281.6	227.2	135.3	49.0	26.8
1980	184.3	279.3	172.0	87.3	28.4	6.6

Footnotes and source on next page.

Table 34.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1980 -- Con.

1/ Military dependents are included in the military category.

2/ The annual number of live births per 1,000 resident population in the group.

3/ The annual number of live births per 1,000 women of childbearing age.

4/ The average number of children to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years. Equals the sum of single year age-specific birth rates.

5/ The average number of girls to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years. Equals the sum of single year female age-specific birth rates.

Source: Calculations by Eleanor C. Nordyke, Community Population Specialist, East-West Population Institute, based on vital statistics from the Hawaii State Department of Health and decennial census data from the U.S. Bureau of the Census.

Table 35.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1970, 1979, AND 1980

[Excludes births to Hawaii residents occurring out of state.]

Subject	1970	1979	1980
Number of resident births	16,361	17,513	18,129
Rate per 1,000 population	21.3	19.1	18.6
Percent on Oahu	83.0	78.2	77.7
Percent attended by M.D. in hospital 1/	99.5	98.3	98.5
Males per 100 females	106.8	106.2	106.9
Percent of mixed race 1/, 2/	41.7	47.7	47.8
Median weight of single births (grams) 1/	3,232	3,282	3,280
Percent premature (under 2,500 grams) 1/	7.7	7.2	6.4
Percent single births under 40 weeks gestation	(NA)	48.0	50.7
Percent plural 1/	1.5	1.6	1.6
Percent with 1 or more congenital malformations 1/	1.3	1.0	1.0
Percent illegitimate	9.5	16.4	17.6
Percent with prenatal visit in first three months 1/	67.2	74.6	76.5
Percent first child born to mother 1/	38.2	33.5	32.8
Percent first child born alive to mother	(NA)	42.3	42.8
Median age of mothers (years) 1/	25.0	25.9	26.0
Median age of known fathers (years)	28.1	28.7	28.8

NA Not available.

1/ Data for 1970 are on a place of occurrence basis.

2/ All Part Hawaiian babies are classified as mixed. Base excludes births with unknown parentage.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 36.-- MOST COMMON NAMES ON BIRTH CERTIFICATES: 1909-1914, 1950, AND 1981

Sex and rank	1981 1/		1950	1909-1914
	Name	Number		
Boys' names:				
1	Michael	223	John	John ....
2	Christopher	199	Michael	William ......
3	Jason	197	Robert	George ....
4	David	171	William	Antonio ......
5	Jonathan	155	Dennis	Joseph ....
Girls' names:				
1	Jennifer	241	Linda	Maria ....
2	Jessica	117	Kathleen	Mary ....
3	Nicole	108	Sharon	Amelia ....
4	Melissa	94	Carol	Helen ....
5	Kimberly	88	Charlene	Elizabeth ....

1/ A total of 5,301 first names (including variant spellings) was reported for the 17,068 babies born in Hawaii in 1981. There were 2,106 boys' names and 3,195 girls' names.

Source: Hawaii State Department of Health, Research and Statistics Office, printout of 1981 records; Bob Krauss, "Today's lesson: the name game," Honolulu Advertiser, September 14, 1979, p. A-3.

Table 37.-- MOST COMMON SURNAMES IN THE OAHU TELEPHONE DIRECTORY: 1969 AND 1982

Rank	1982		1969: name
	Name	Column-inches	
1	Lee	207	Lee ....
2	Wong	168	Wong ....
3	Young	115	Chun ....
4	Chang	107	Young ....
5	Chun	102	Chang ....
6	Smith	97	Ching ....
7	Kim	94	Nakamura ....
8	Ching	84	Smith ....
9	Nakamura	81	Lum ....
10	Lum	81	Yamamoto; Johnson.

Source: Tabulations by Bob Krauss reported in Honolulu Advertiser, November 25, 1969, p. A-11, and Sunday Star-Bulletin and Advertiser January 24, 1982, p. A-6.

Table 38.-- CHARACTERISTICS OF RESIDENT DEATHS: 1970, 1979, AND 1980

[Excludes deaths of Hawaii residents occurring out of state.]

Subject	1970	1979	1980
Number of resident deaths 1/	3,942	4,791	4,903
Rate per 1,000 population 1/	5.5	5.2	5.0
Percent on Oahu 1/	73.2	74.5	75.0
Males per 100 females 1/	163.3	148.0	154.4
Median age (years) 1/, 2/	65.3	68.7	69.2
Number of deaths under 1 year 2/	315	179	183
Per 1,000 live births 2/	19.1	10.2	10.1
Fetal deaths 3/	4,221	7,700	8,178
Per 1,000 deliveries 3/	205	305	311
Fetal deaths, 20 or more weeks gestation 2/, 3/	340	230	186
Per 1,000 live births 2/, 3/	20.6	13.1	10.3
Standard fetal deaths 4/	1,458	1,683	1,716
Elective abortions	2,763	6,017	6,462
Per 1,000 live births	169	344	356

1/ Data for 1970 exclude armed forces.
2/ Data for 1970 are on a place of occurrence basis.
3/ Includes elective abortions.
4/ Excludes elective abortions.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 39.-- CAUSE OF DEATH: 1960, 1970, AND 1980

[Place of residence basis. Data for 1960 and 1970 exclude armed forces.]

Cause of death 1/	Number, 1980	Percent distribution			Rate per 100,000 population		
		1980	1970	1960	1980	1970	1960
All causes	4,903	100.0	100.0	100.0	504.1	546.9	568.3
Diseases of the heart ..	1,544	31.5	32.9	33.0	158.7	180.0	187.7
Malignant neoplasms	1,411	23.3	18.1	17.2	117.3	99.2	97.7
Cerebrovascular diseases	376	7.7	9.5	10.4	38.7	52.1	59.1
All accidents	326	6.6	7.1	7.5	33.5	38.1	43.5
Influenza and pneumonia	178	3.6	4.1	3.6	18.3	22.5	20.5
Diabetes mellitus	128	2.6	2.3	2.6	13.2	12.7	14.9
Suicide	111	2.3	2.0	1.3	11.4	11.0	7.4
Perinatal conditions ...	94	1.9	4.9	7.5	9.7	26.6	42.7
Cirrhosis of liver	83	1.7	1.8	1.3	8.5	9.6	7.1
Homicide and legal intervention	71	1.4	0.8	0.6	7.3	4.3	3.2
Congenital anomalies ...	67	1.4	1.8	2.2	6.9	9.6	12.5
Bronchitis, emphysema and asthma	47	1.0	1.6	1.3	4.8	8.6	7.1
All other causes	737	15.0	13.1	11.4	75.8	72.0	64.9

1/ The leading causes of death in 1980, listed according to rank.

Source: Hawaii State Department of Health, Statistical Report, 1980, p. 23.

Table 40.-- CATASTROPHIC MORTALITY: 1977 TO 1982

[Includes all accidents, natural disasters, and other events causing five or more deaths. Excludes out-of-state deaths to Hawaii residents, such as the Chicago airplane crash which killed 273 persons, including 10 residents of Hawaii, on May 25, 1979.]

Date		Place	Kind of disaster	Deaths
1977:	April 13 1/ ...	At sea off Waikiki	Airplane crash	5
1978:	Dec. 9 (?)	At sea off West Hawaii .	Ship disappearance ..	10
1979:	Feb. 11 (?) ...	At sea out of Hana	Boat disappearance ..	5
	Nov. 24	Near Wahiawa	2-car auto crash	5
1980:	May 18	Molokai	Helicopter crash	7
1981:	Dec. 5	Pearl Harbor	Airplane crash	11
1982:	July 24	Near Wahiawa	3-car auto crash	5

1/ For earlier events, see Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. 3, 1969, pp. 66-86, and "Catastrophic Mortality in Hawaii, 1969-1976," unpublished paper filed in DPED Library, 1976.

Source: DPED file of newspaper accounts.

Table 41.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1970, 1979, AND 1980

Method	1970	1979	1980	Percent distribution		
				1970	1979	1980
All methods	4,197	5,138	5,204	100.0	100.0	100.0
Burial	2,197	2,322	2,343	52.3	45.2	45.0
Cremation	1,509	2,180	2,241	36.0	42.4	43.1
Removal	470	582	567	11.2	11.3	10.9
Entombment	13	38	44	0.3	0.7	0.8
Educational purpose .	3	-	-	0.1	0	0
Other	-	5	1	0	0.1	0.0
Unknown	5	11	8	0.1	0.2	0.2

Source: Hawaii State Department of Health, Statistical Report (annual) and records.

Table 42.-- SELECTED LIFE TABLE VALUES: 1979-1981

Exact age in years (x)	Average expectation of life in years (e_x)		Number surviving to specified age per 1,000 born alive (l_x)	
	Male	Female	Male	Female
Birth 1/	74.80	81.22	1,000	1,000
Age 25	51.74	57.46	971	984
Age 45	33.14	38.28	938	966
Age 65	17.20	20.84	786	879

1/ For both sexes combined, the expectation of life at birth in Hawaii was 77.79 years. The corresponding figure for the United States, based on 1979 data, was 73.7 years; see U.S. Department of Health and Human Services, National Center for Health Statistics, "Advance Report of Final Mortality Statistics, 1979," NCHS Monthly Vital Statistics Report, Vol. 31, No. 6, Supp., September 30, 1982, p. 2.

Source: Preliminary estimates by Robert W. Gardner, East-West Population Institute, October 12, 1982.

Table 43.-- ACUTE CONDITIONS: 1980

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions	1,570,820	168.8
Infective parasitic diseases	94,888	10.2
Respiratory condition	1,060,336	114.0
Upper respiratory	744,014	80.0
Influenza	283,147	30.4
Other respiratory condition ...	33,174	3.6
Digestive system condition	29,939	3.2
Injuries	196,730	21.1
All other acute conditions	188,928	20.3

Source: Hawaii State Department of Health, Statistical Report, 1980, p. 69.

Table 44.-- CHRONIC CONDITIONS: 1980

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Heart condition	18,715	20.1
Impairments of back or spine	30,144	32.4
Hypertension without heart involvement	70,282	75.6
Arthritis/rheumatism	25,882	27.8
Hearing impairment	24,334	26.2
Asthma with or without hayfever	27,740	29.8
Diabetes	21,386	23.0
Mental and nervous condition	8,729	9.4
Visual impairment	11,407	12.3
Malignant neoplasms	5,480	5.9
Chronic and allergic skin conditions	17,521	18.8
Chronic sinusitis	19,197	20.6
Hayfever without asthma	50,370	54.1
Stomach ulcer	7,529	8.1
Bronchitis/emphysema	9,658	10.4
Benign and unspecified neoplasms	5,495	5.9
Hemorrhoids	14,055	15.1
Thyroid/goiter	5,411	5.8
Varicose veins	3,358	3.6
Gout	9,927	10.7

Source: Hawaii State Department of Health, Statistical Report, 1980, p. 61.

Table 45.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: 1980

Type of limitation	Number
Persons with one or more chronic conditions	319,102
No limitation of activity	268,247
Limited, but not in major activity	21,986
Limited in amount or kind of activity	16,884
Unable to carry on major activity	11,985
Restricted days in past 12 months 1/	12,521,532
Per person 2/	13.5
Bed days in past 12 months	3,710,282
Per person 2/	4.0
Work days lost by persons 17 years of age and older in past 12 months	1,596,936
Per employed person 17 years and older 2/	3.8
School days lost by persons 6 to 16 years of age in past 12 months	481,840
Per pupil 6 to 16 years of age 2/	2.8

1/ A restricted activity day is one in which a person had to cut down on his usual activity for all or most of the day.

2/ Base includes persons without chronic or acute conditions or restricted activities.

Source: State Department of Health, Statistical Report, 1980, pp. 68, 72 and 73.

Table 46.-- SPECIFIED COMMUNICABLE DISEASES: 1970, 1979, AND 1980

Disease	Cases			Deaths		
	1970	1979	1980	1970	1979	1980
All reportable diseases ..	14,945	11,957	12,270	41	30	30
Chickenpox	1,680	835	926	-	2	-
Gonorrhea	1,494	4,373	4,383	-	-	-
Hepatitis, infect. and serum ..	243	242	232	4	1	8
Influenza	1,326	464	118	-	6	2
Leprosy	16	33	34	5	1	-
Measles (Rubeola)	205	68	6	-	-	-
Measles, German (Rubella)	207	16	5	-	-	-
Meningitis, all types	182	141	195	13	6	6
Mumps	1,669	117	24	-	-	-
Salmonellosis	767	406	405	-	-	-
Scarlet fever, other strep. ...	4,708	4,348	5,102	-	-	-
Syphilis	92	196	225	2	-	-
Tuberculosis	270	311	127	14	14	14
All others	2,086	407	488	3	-	-

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 47.-- LEPROSY PATIENTS REGISTERED: 1978 TO 1980

Subject	1978	1979	1980
Patients on register, Dec. 31 ..	437	458	474
Medically released	434	458	474
At home	304	328	349
Kalaupapa	127	124	119
Hale Mohalu or Leahi	3	6	6
Not medically released	3	-	-
Net annual increase	16	21	16
New cases added	31	33	34
Cases returned to register ...	2	2	3
Deaths	5	5	8
Left the State	10	1	4
Discharged	2	8	9

Source: Hawaii State Department of Health, Statistical Report, 1980, p. 105.

Table 48.-- PERSONS 12 YEARS OLD AND OVER WHO HAD EVER USED SPECIFIED SUBSTANCES: 1979

[Based on anonymous questionnaires completed by 3,127 household members on six major islands.]

Substance	12 years old and over		12 to 17 years old: percent	18 to 25 years old: percent	26 years old and over: percent
	Number (1,000)	Percent			
Coffee	661	93.5	83.4	91.8	96.1
Cigarettes	427	60.5	35.2	63.5	64.9
Alcohol	560	79.2	52.1	87.2	82.8
Marijuana	222	31.4	31.8	55.7	24.7
Over the counter drugs .	235	33.2	35.8	35.9	31.9
Sedatives	96	13.5	6.1	21.3	12.9
Stimulants	90	12.8	3.5	17.9	13.3
Tranquilizers	178	25.2	5.8	26.7	28.9
Inhalants	55	7.8	10.9	15.9	4.9
Opiates	232	32.8	19.0	37.9	34.4
Hallucinogens	77	10.8	4.2	25.3	8.3
PCP	38	5.3	3.6	14.2	3.3
Cocaine	89	12.6	5.1	27.1	10.2
Heroin	20	2.8	0.4	5.6	2.6
Stimulants 1/	44	6.3	1.7	12.2	5.6
Sedatives 1/	46	6.6	3.8	16.1	4.5
Tranquilizers 1/	43	6.0	3.4	12.4	4.9
Over the counter 1/	24	3.4	2.5	4.9	3.2
Opiates 1/	24	3.4	1.6	7.9	2.5

Footnote and source follow next table.

Table 49.-- PERSONS 12 YEARS OLD AND OVER WHO HAD USED SPECIFIED SUBSTANCES IN THE PRECEDING MONTH: 1979

[Based on anonymous questionnaires completed by 3,127 household members on six major islands.]

Substance	12 years old and over		12 to 17 years old: percent	18 to 25 years old: percent	26 years old and over: percent
	Number (1,000)	Percent			
Coffee	576	81.5	53.9	73.7	89.4
Cigarettes	235	33.3	15.3	40.0	35.2
Alcohol	389	55.1	27.4	68.2	57.3
Marijuana	102	14.4	17.9	30.7	9.2
Over the counter drugs .	45	6.4	10.1	6.7	5.5
Sedatives	21	3.0	0.9	5.1	3.0
Stimulants	14	1.9	0.9	3.0	2.0
Tranquilizers	44	6.2	1.5	5.5	7.0
Inhalants	9	1.2	2.9	1.2	0.8
Opiates	39	5.5	6.1	5.9	5.5
Hallucinogens	10	1.4	1.8	4.2	0.5
PCP	3	0.4	0.8	1.2	0.1
Cocaine	33	4.7	2.5	12.6	3.0
Heroin	2	0.3	0	1.1	0.2
Stimulants 1/	8	1.1	0.7	3.0	0.7
Sedatives 1/	9	1.2	0.5	3.8	0.7
Tranquilizers 1/	8	1.1	0.7	3.1	0.7
Over the counter 1/	6	0.8	0.3	1.3	0.7
Opiates 1/	5	0.7	1.0	1.5	0.4

1/ Non-medical use.

Source: Hawaii State Department of Health, Mental Health Division, Alcohol and Drug Abuse Branch, Hawaii State Survey on Substance Abuse - 1979. Preliminary Findings (December 1980), tables 7 and 13.

Table 50.-- ACUTE CARE HOSPITALS, BY ISLANDS: 1980

Island	Number of hospitals	Licensed beds	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
State 1/	23	2,882	117,726	2,050.3	2/ 6.4	2/ 71.1
Oahu 1/	11	2,307	94,157	1,766.4	2/ 6.8	2/ 76.6
Civilian only 3/ ..	10	1,741	76,194	1,345.6	6.5	77.3
Hawaii	5	265	11,599	121.8	3.8	46.0
Kauai	3	143	4,633	65.9	5.2	46.1
Maui	2	146	6,888	93.0	2/ 4.9	2/ 63.7
Molokai	1	15	426	3.1	2.7	20.8
Lanai	1	6	23	0.1	2.3	2.5

NA Not available.

1/ Includes Tripler Army Medical Center.

2/ Estimated by Hawaii State Department of Planning and Economic Development.

3/ Excludes Tripler.

Source: Hawaii State Health Planning and Development Agency, records.

Table 51.-- SKILLED NURSING, INTERMEDIATE CARE AND SPECIAL TREATMENT FACILITIES, CARE HOMES, AND BEDS, BY ISLANDS: 1980

[Data are only for civilian facilities licensed by the Hospital and Medical Facilities Branch of the Hawaii State Department of Health.]

Category and island	Total, all facilities	Skilled nursing, intermediate care facilities	Special treatment facilities 1/	Care homes	
				Residential 2/	Family 3/
NUMBER OF FACILITIES					
State total ..	377	57	24	15	281
Oahu	289	31	16	10	232
Hawaii	29	9	2	1	17
Kauai	32	7	3	3	19
Lanai	3	3	-	-	-
Maui	20	6	3	-	11
Molokai	4	1	-	1	2
NUMBER OF BEDS					
State total ..	6,673	4,532	609	490	1,042
Oahu	4,741	2,973	481	402	885
Hawaii	723	638	22	13	50
Kauai	504	351	31	61	61
Lanai	24	24	-	-	-
Maui	647	534	75	-	38
Molokai	34	12	-	14	8

1/ These include alcohol and drug abuse treatment centers, centers for runaway children, and facilities for physically or emotionally disturbed individuals. Data are for August 1981.

2/ Five or more beds.

3/ Four or fewer beds.

Source: Hawaii State Department of Health, Statistical Report, 1980, pp. 152, 153, as revised November 3, 1981.

Table 52.-- HEALTH SERVICES: 1977

Kind of business or operation	All taxable establishments		Taxable establishments with payroll		Tax-exempt establishments with payroll	
	Number	Receipts ($1,000)	Number	Receipts ($1,000)	Number	Expenses ($1,000)
Total	1,797	264,175	1,101	248,561	65	149,107
Offices of physicians	713	145,328	551	139,842	-	-
Offices of dentists	487	61,518	397	58,087	-	-
Offices of osteopathic physicians	10	640	7	546	-	-
Offices of chiropractors	22	1,238	10	903	-	-
Offices of optometrists	59	5,953	41	5,045	-	-
Nursing and personal care facilities	210	15,990	12	13,908	6	6,575
Skilled nursing care facilities	(NT)	(NT)	7	11,484	4	(D)
Nursing and care facilities, n.e.c.	(NT)	(NT)	5	2,424	2	(D)
Hospitals	1	(D)	1	(D)	14	130,447
General medical and surgical	1	(D)	1	(D)	10	110,257
Psychiatric	-	-	-	-	-	-
Specialty, except psychiatric	-	-	-	-	4	20,190
Medical and dental laboratories	74	11,373	43	10,705	-	-
Medical	22	6,921	14	6,667	-	-
Dental	52	4,452	29	4,038	-	-
Other health services	221	(D)	39	(D)	45	12,085
Offices of health practitioners, n.e.c.	(NT)	(NT)	21	1,600	-	-
Outpatient care facilities	(NT)	(NT)	11	1,359	34	8,200
Health and allied services, n.e.c.	(NT)	(NT)	7	(D)	11	3,885

D Withheld to avoid disclosing data for individual establishments.
NT Not tabulated.
Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-8, Health Services (May 1981), tables 1 and 2.

Table 53.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1975 TO 1980

Year	Patients active, end of period			Admissions		Terminations	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
1975 ..	7,090	367	6,723	5,233	4,947	4,633	11,101
1976 ..	6,979	321	6,658	5,533	5,174	5,684	11,935
1977 ..	6,905	226	6,679	5,453	5,171	5,529	11,806
1978 ..	6,886	263	6,623	5,441	5,068	5,522	11,642
1979 ..	6,392	333	6,059	4,564	4,265	5,057	10,713
1980 ..	6,328	440	5,886	5,112	4,696	4,759	10,625

Source: Hawaii State Department of Health, Statistical Report (annual) and records.

Table 54.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY: 1977 TO 1982

[Hawaii State Hospital is the only large psychiatric hospital in Hawaii.]

Year	Number of beds, June 30	Admissions 1/		Patients in hospital	
		Total	First	Average 1/	June 30
1977	199	994	470	243	192
1978	199	737	350	179	169
1979	199	787	315	184	204
1980	199	816	321	226	239
1981	220	804	322	214	222
1982	220	990	402	226	221

1/ Year ended June 30.
Source: Hawaii State Hospital, records.

Table 55.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1977 TO 1982

[Waimano Training School and Hospital is the State institution for the mentally retarded.]

Year	Beds, June 30	Admissions 1/	Patients in residence		Patients on leave, June 30
			Average 2/	June 30	
1977	600	12	529	535	572
1978	600	13	491	482	599
1979	600	13	441	446	613
1980	575	12	437	423	627
1981	575	7	406	397	635
1982	575	6	387	385	621

1/ Year ended June 30. Excluding returns from community placement.

2/ Year ended June 30.

Source: Hawaii State Department of Health, Statistical Report (annual); Waimano Training School and Hospital, records.

Table 56.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF RESIDENCE: MARCH 19, 1982

Place of residence	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	2,592	900	8,088	617
Hawaii residents ...	1,707	686	5,925	387
Hawaii	133	61	507	36
Maui	112	36	405	32
Lanai	2	1	13	-
Molokai	4	4	25	3
Oahu	1,393	561	4,730	299
Kauai	63	23	245	17
Niihau	-	-	-	-
Nonresidents	885	214	2,163	230

1/ Permanent licenses only. Does not include interns, residents, or the 26 physicians who provided State government services only.

Source: Hawaii State Department of Regulatory Agencies, Professional and Vocational Licensing Division, records.

Table 57.-- DRUG STORES, PHARMACISTS, AND PRESCRIPTIONS: 1977

[Data are shown only for establishments with payroll.]

Subject	State total	Oahu only
Number of establishments	87	70
Sales ($1,000)	170,717	(D)
Prescriptions, total (1,000)	2,911	2,185
Refills (1,000)	638	473
Pharmacists, total, mid-March	168	138
Part-time, working less than 35 hours per week	36	29
Establishments which filled prescriptions paid for by third parties, total	76	59
Third-party prescriptions less than 15 percent of total prescriptions	17	15
15 to 24 percent	13	11
25 percent or more	46	33

D Withheld to avoid disclosure.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-S-2, Miscellaneous Subjects (October 1980), tables 22, 23, 24, and 25.

Table 58.-- EXPENDITURES BY CIVILIAN FAMILIES AND INDIVIDUALS FOR HEALTH SERVICES: 1978-1979

[Annual out-of-pocket expenses.]

Service	Percent utilizing service		Average expense 1/ (dollars)		Median expense 1/ (dollars)	
	Families	Unrel. indiv.	Families	Unrel. indiv.	Families	Unrel. indiv.
All health services	...	...	834	437	629	278
Excluding insurance premiums ..	...	...	626	337	404	155
Doctor care	88.9	78.3	233	113	150	75
Hospital care	24.7	12.8	381	646	190	209
Medicine	83.6	69.9	106	74	60	30
Dental care	71.3	45.6	299	196	195	90
Other health services	43.2	29.4	149	130	100	100
Health insurance premiums	...	...	316	179	276	152

1/ For families with expense.

Source: Hawaii State Department of Health, Cost of Medical Care (R & S Report, No. 36, October 1981), pp. 24, 28, 31, 34, 37, 40, 43, 46, and 49.

Table 59.-- DENTAL CARE, BY AGE GROUP: 1979

[Based on a sample of 4,457 persons surveyed in April-June 1979 as part of the Hawaii Health Surveillance Program.]

Subject	All ages 1/	Under 20 years	20 to 39 years	40 to 59 years	60 years and over
Population surveyed	867,755	293,667	300,852	175,113	92,666
Months since last visit:					
Less than 6	312,781	111,515	113,509	63,300	22,983
6 to 12	138,438	52,918	52,923	20,147	12,127
Less than 12, unspecified	114,922	42,132	32,545	28,031	10,119
Over 12	219,379	34,942	84,555	56,284	42,578
Never	55,394	47,244	3,653	2,290	2,118
Unknown	26,842	4,916	13,667	5,061	2,742
Services received in past 12 months: 2/					
Checkup	23,601	12,394	6,124	4,272	811
X-Ray	344,731	119,090	133,835	65,831	22,428
Cleaning teeth	434,384	160,282	158,072	83,836	28,742
Fillings	291,238	105,669	114,037	49,970	21,217
Fluoride treatment	155,870	97,968	47,498	8,220	2,183
Extractions	66,266	24,683	25,831	10,512	5,161
Root canal treatment	27,081	3,033	12,894	6,633	4,175
Dentures and/or bridges	35,048	376	7,629	14,641	12,323
Crowns and capping	53,243	8,701	22,939	14,214	7,376
Straightening teeth	16,192	11,913	3,130	1,148	-
Treating gum and/or bone	13,016	867	3,918	5,243	2,987
Other	8,128	4,224	1,796	699	1,409
Unknown	17,642	7,135	4,917	4,189	1,056
Dental problems: 2/					
Cavities	85,192	19,904	44,345	14,491	6,451
Toothache	11,132	1,683	4,666	2,808	1,974
Wisdom tooth	22,066	6,109	13,928	1,513	516
Dentures	32,651	1,547	2,644	12,399	16,061
Crooked teeth or bad bite	33,595	20,436	9,049	2,726	1,384
Disease of gum and/or bone	8,861	452	2,555	4,789	1,040
Other	18,324	5,903	6,918	3,081	2,422
None	636,968	220,371	213,235	135,848	62,908
Unknown	54,917	24,001	18,857	6,063	5,171

1/ Includes 5,456 persons not reporting age.

2/ Some respondents reported two or more categories.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, printout dated January 29, 1981.

Table 50.-- MARRIAGES AND DIVORCES: 1970 TO 1981

[Place of occurrence basis.]

Calendar year	Marriages	Divorces and annul-ments 1/	Rate per 1,000 resident population 2/		Percent of marriages	
			Marriages	Divorces 1/	Nonresi-dent 3/	Inter-racial
1970 ...	10,599	2,589	13.7	3.3	25.6	33.7
1971 ...	9,734	3,691	12.2	4.6	16.7	38.7
1972 ...	9,750	3,891	11.8	4.7	13.0	38.6
1973 ...	9,776	4,170	11.5	4.9	11.5	40.6
1974 ...	9,649	4,111	11.1	4.7	11.9	40.1
1975 ...	9,673	4,265	10.9	4.8	12.7	39.6
1976 ...	9,769	4,712	10.8	5.2	14.9	38.8
1977 ...	10,266	4,601	11.2	5.0	17.9	37.5
1978 ...	10,736	4,837	11.6	5.2	19.4	37.9
1979 ...	11,678	5,055	12.3	5.3	19.3	38.2
1980 ...	11,856	4,438	12.2	4.6	20.4	37.6
1981 ...	12,218	4,253	12.5	4.3	22.7	36.1

NA Not available.

1/ Final decrees only. An interlocutory decree of one year was established May 8, 1965, reduced to six months on July 3, 1969, and abolished July 1, 1971.

2/ Based on intercensal and postcensal estimates cited in table 32, footnote 2.

3/ Both partners nonresidents of Hawaii.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R & S Report, No. 5 (June 1974); Annual Report, Statistical Supplement for 1970-1980 and records.

Table 61.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1970, 1979, AND 1980

[Place of occurrence basis.]

Subject	1970	1979	1980
MARRIAGES			
Number	10,599	11,678	11,856
Percent on Oahu	85.6	73.3	73.2
Percent Hawaii residents:			
Both bride and groom	66.0	75.6	75.1
One partner only	8.4	5.1	4.6
Neither bride nor groom	25.5	19.3	20.4
Median age (years):			
Groom	24.5	27.9	28.1
Bride	22.9	25.5	25.8
Percent previously married:			
Groom	21.9	35.5	34.6
Bride	22.3	35.0	34.5
DIVORCES AND ANNULMENTS			
Number 1/	2,589	5,055	4,438
Divorces	2,563	5,042	4,423
Annulments	26	11	14
Percent occurring on Oahu	86.6	80.7	77.7
Percent nonresident:			
Husband	11.1	12.9	11.8
Wife	12.7	12.9	12.4
Neither partner	75.7	73.9	75.7
Median age (years):			
Husband	33.0	32.6	33.0
Wife	30.4	29.9	30.4
Percent interracial 2/	35.9	37.2	39.3
Percent with children under 18 years	63.9	55.0	45.2
Median years married	7.6	6.0	6.0

1/ Includes unspecified type of decree (2 in 1979 and 1 in 1980).

2/ For these calculations, marriages where both bride and groom are in the "Other Races" or "Part Hawaiian" categories are classified as non-interracial.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 62.-- AGE DIFFERENCES IN MARRIAGE AND DIVORCE: 1980

Age difference	Marriages 1/			Divorces	
	Total	Resident	Nonresident	Number	Ratio 2/
Total	11,856	9,446	2,410	4,438	47.0
Man older:					
20 years or more .	201	122	79	79	64.8
10 to 19 years ...	1,171	767	404	385	50.2
5 to 9 years	2,193	1,623	570	753	46.4
1 to 4 years	4,291	3,578	713	1,716	48.0
Both same age	1,241	1,080	161	542	50.2
Woman older:					
1 to 4 years	1,915	1,590	325	620	39.0
5 to 9 years	597	481	116	191	39.7
10 years or more .	246	204	42	67	32.8
Not available	1	1	-	85	...
Median difference (years):					
Absolute	3.5	3.3	4.5	3.3	...
Algebraic 3/	2.3	2.0	3.6	2.3	...

1/ Resident marriages are those in which one or both partners are Hawaii residents; nonresident marriages, those in which neither partner is a Hawaii resident.

2/ Divorces per 100 resident marriages.

3/ Age of groom less age of bride. All values are positive.

Source: Hawaii State Department of Health, special tabulation.

Table 63.-- MARRIAGES, MIXED AND UNMIXED, BY RESIDENCE STATUS OF PARTNERS: 1980

[Data refer to marriages occurring in Hawaii.]

Residence status	Ethnic stock of bride and groom 1/				
	Total	Same	Different	Not reported 2/	Percent different 3/
All marriages	11,856	7,232	4,053	571	35.9
Resident marriages 4/	9,446	5,098	3,841	507	43.0
Nonresident marriages 5/	2,410	2,134	212	64	9.0

1/ Based on the following categories: Caucasian other than Portuguese, Hawaiian, Part Hawaiian, Chinese, Filipino, Japanese, Puerto Rican, Korean, Samoan, Portuguese, Negro or Black, Vietnamese, Other races, and Unknown.

2/ Both partners "other races," or one or both "unknown."

3/ Base excludes "not reported."

4/ One or both partners classified as residents of Hawaii.

5/ Both partners classified as nonresidents.

Source: Hawaii State Department of Health, special tabulation.

Table 64.-- MARRIAGES OCCURRING IN HAWAII, BY TYPE OF CEREMONY: 1978 TO 1980

Year and residence status	All marriages	Civil	Religious	Not stated	Percent civil
1978	10,736	3,573	7,160	3	33.3
1979	11,678	4,011	7,664	3	34.3
1980	11,856	4,163	7,693	-	35.1
Residence status: 1980					
Resident marriages 1/	9,446	3,530	5,916	-	37.4
Nonresident marriages 2/ ..	2,410	633	1,777	-	26.3

1/ One or both partners classified as Hawaii residents.

2/ Both partners classified as nonresidents.

Source: Hawaii State Department of Health, special tabulations.

Table 65.-- AVERAGE HEIGHTS AND WEIGHTS, BY SEX, FOR THE PERIOD OF RECORD

Group	Stature (cm.) 1/		Weight (lb.)	
	Male	Female	Male	Female
Pre-contact adult burials at Mokapu, Oahu	169.9	158.1	(NA)	(NA)
Pupils in Honolulu schools, 1920-1921:				
6 years old	113.0	112.3	43.0	42.2
9 years old	126.6	126.4	56.1	56.0
12 years old	140.8	143.9	74.3	80.4
15 years old	159.0	154.4	107.5	106.4
18 years old	165.7	157.6	127.2	114.7
Hawaii adults of Japanese ancestry, 1931-1932:				
Born in Japan 2/	158.7	148.5	124.0	113.0
Born in Hawaii 3/	162.8	150.2	127.4	103.3
Single live births: 4/				
1974	(NA)	(NA)	7.2	7.0
1980	(NA)	(NA)	7.3	7.1
Population 18 years old and over, 1975-1980	171.4	159.0	159.5	127.9

NA Not available.
1/ Without shoes.
2/ 20 to 64 years old.
3/ 20 to 49 years old.
4/ Median rather than arithmetic mean.

Source: Charles E. Snow, *Early Hawaiians* (The University Press of Kentucky, 1974), p. 119; Clark Wissler, *Growth of Children in Hawaii* (Bernice P. Bishop Museum, 1930), pp. 133-139 (as calculated by DPED from data reported separately by race); H. L. Shapiro, *Migration and Environment* (Oxford University Press, 1939), pp. 206, 212, 220, and 226; Hawaii State Department of Health, *Statistical Report* for 1974 (pp. 16-17) and 1980 (pp. 15-16), and Hawaii Health Surveillance Program, special tabulation.

Table 66.-- AVERAGE HEIGHT AND WEIGHT OF PERSONS 18 YEARS OLD AND OVER, BY AGE AND SEX: 1975-1980

[Based on a sample of approximately 18,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward.]

Age in years	Average height (inches)		Average weight (lb.)	
	Male	Female	Male	Female
Total, 18 and over ...	67.5	62.6	159.5	127.9
18 to 24	68.2	63.2	156.2	123.7
25 to 34	68.6	63.3	164.5	127.6
35 to 44	68.2	62.9	169.5	132.1
45 to 54	67.2	62.3	161.8	130.5
55 to 64	66.5	62.0	154.3	128.5
65 and over	65.3	61.1	143.1	123.3
Age not reported	67.3	62.9	163.5	127.8

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 67.-- AVERAGE HEIGHT AND WEIGHT OF PERSONS 18 YEARS OLD AND OVER, BY ETHNIC STOCK AND SEX: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward.]

Ethnic stock	Average height (inches)		Average weight (lb.)	
	Male	Female	Male	Female
All groups	67.5	62.6	159.5	127.9
Caucasian	69.9	64.3	170.0	133.2
Japanese	65.7	61.0	146.3	116.5
Chinese	67.0	62.3	148.1	116.5
Filipino	64.7	61.0	143.1	119.1
Hawaiian	68.2	63.9	185.9	161.1
Korean	66.9	62.1	149.6	116.2
Negro or black	70.6	64.4	174.6	135.7
Puerto Rican	67.1	62.3	170.8	142.0
Samoan	68.5	64.5	191.0	170.7
Other unmixed or unknown ..	68.5	63.2	166.4	131.1
Part Hawaiian	68.6	63.7	178.4	145.7
Mixed, non-Hawaiian	67.6	62.5	159.9	127.5

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 68.-- HEIGHT DISTRIBUTION, BY SEX, AND AVERAGE WEIGHT, BY HEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward.]

Height (in inches)	Cumulative percent 1/		Average weight (pounds)	
	Male	Female	Male	Female
Total	100.0	100.0	159.5	127.9
Under 54	0.1	0.7	(B)	111.0
54	0.1	0.8	(B)	106.0
55	0.1	1.0	(B)	112.9
56	0.2	1.7	(B)	107.3
57	0.3	2.7	(B)	107.8
58	0.4	5.2	122.7	107.9
59	0.7	11.4	124.2	113.6
60	2.1	24.4	126.7	116.3
61	3.5	34.9	131.7	121.3
62	7.3	51.2	133.6	124.6
63	12.1	63.3	136.1	128.7
64	19.8	74.7	140.8	133.9
65	27.8	82.8	145.1	138.5
66	39.3	89.9	150.0	140.3
67	51.2	94.6	155.8	144.4
68	61.8	97.4	161.6	148.5
69	70.7	98.6	168.4	156.5
70	78.4	99.3	170.7	153.2
71	85.7	99.7	177.7	156.8
72	92.7	99.9	182.4	167.4
73	95.7	99.9	188.7	(B)
74	98.1	100.0	193.9	(B)
75	99.0	100.0	198.9	(B)
76	99.6	100.0	201.8	(B)
77	99.8	100.0	205.9	(B)
78	99.9	100.0	210.8	(B)
79 and over	100.0	100.0	192.2	(B)
Not reported	...	...	158.1	134.0

B Base figure too small to meet statistical standards for reliability of derived figure.

1/ Based on number reporting height.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 69.-- WEIGHT DISTRIBUTION, BY SEX, AND AVERAGE HEIGHT, BY WEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward.]

Weight (in pounds)	Cumulative percent 1/		Average height (in inches)	
	Male	Female	Male	Female
Total	100.0	100.0	67.5	62.6
Under 75	0.0	0.1	(B)	57.8
75 to 99	0.4	7.8	61.4	59.7
100 to 124	7.7	51.2	63.5	61.9
125 to 149	38.3	82.5	65.7	63.4
150 to 174	71.7	93.3	68.0	64.2
175 to 199	90.0	97.7	69.8	64.7
200 to 224	96.8	99.1	70.7	65.0
225 to 249	98.7	99.6	70.9	65.0
250 to 274	99.5	99.9	70.6	65.5
275 to 299	99.8	100.0	71.0	63.9
300 to 324	99.9	100.0	72.1	(B)
325 to 349	99.9	100.0	(B)	(B)
350 and over	100.0	100.0	(B)	(B)
Not reported	...	...	65.9	62.8

B Base figure too small to meet statistical standards for reliability of derived figure.

1/ Based on number reporting weight.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 70.-- NUTRITION OF STUDENTS, BY GRADE LEVEL: 1979

Subject	Elementary school		Junior high school		Senior high school	
	Male	Female	Male	Female	Male	Female
Mean daily intake						
Protein (g.)	88	75	104	77	117	74
Vitamin A (R.E.) 1/	1,086	774	924	619	1,115	835
Vitamin C (mg.)	99	94	101	93	156	120
Thiamin (mg.)	1.1	1.0	1.2	1.0	1.5	0.9
Riboflavin (mg.)	2.0	1.7	2.1	1.5	2.6	1.5
Niacin 2/ (mg.)	17	15	20	15	23	14
Calcium (mg.)	943	807	1,063	719	1,200	708
Phosphorus (mg.)	1,337	1,200	1,721	1,206	1,905	1,083
Iron (mg.)	12	10	14	10	15	10
Calories (kcal.)	2,180	1,942	2,654	2,057	3,079	2,028
Breakfast	345		390		356	
Lunch	550		530		529	
Dinner	645		685		732	
Snacks	522		766		1,028	
Sugar (g.)	44	41	61	58	70	57
Cholesterol (mg.)	388	325	466	310	535	297
Fat (g.)	90	82	111	85	128	81
Mean intake as percent of RDA or standard						
Protein	258	221	231	167	209	161
Vitamin A	155	111	92	77	111	104
Vitamin C	220	209	203	186	260	199
Thiamin	95	82	85	90	106	82
Riboflavin	142	120	134	118	151	118
Niacin 2/	108	93	110	97	128	103
Calcium	118	101	89	62	100	59
Phosphorus	167	150	143	100	159	90
Iron	118	104	77	56	83	55
Calories	91	81	98	93	110	97

1/ Retinol Equivalents.

2/ Data exclude the niacin value that could be contributed by tryptophan. Because students in the sample were consuming more than adequate amounts of protein, their niacin levels would be higher than those indicated.

Source: University of Hawaii, Curriculum Research and Development Group, *Hawai'i Nutrition Education Needs Assessment, Final Report* (May 1980), pp. 19-34.

Table 71.-- DAILY FOOD INTAKE OF INDIVIDUALS: WINTER 1978

Food	Average daily intake (grams)	Percent using in a day
Meats, poultry, fish	244	94.7
Milk, milk products (calcium equivalent)	273	69.8
Eggs	28	32.2
Legumes, nuts, seeds	38	25.8
Grain products	281	96.9
Bread, rolls, biscuits	49	70.4
Rice	116	58.7
Fats, oils	13	62.9
Vegetables	160	86.4
Nonalcoholic beverages	491	77.1
Alcoholic beverages	79	12.2
Fruits	169	58.5
Sugar, sweets	18	53.8

Source: U.S. Department of Agriculture, Science and Education Administration, Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 33-42.

Table 72.-- NUTRITIVE VALUE OF FOOD: WINTER 1978

Nutrient	Average intake per individual in a day		Percent of recommended dietary allowances in a day	Percent of households meeting recommended allowances
	Unit	Amount		
Food energy	Kcal	1,751	81	77
Protein	G	73.8	163	98
Fat	G	75.8	...	...
Carbohydrate	G	188.2	...	...
Calcium	Mg	625	73	50
Iron	Mg	12.6	103	88
Magnesium	Mg	236	79	70
Phosphorus	Mg	1,068	127	96
Vitamin A value	IU	5,429	122	83
Thiamin	Mg	1.23	110	88
Riboflavin	Mg	1.50	116	87
Preformed niacin ...	Mg	18.3	124	...
Vitamin B_6	Mg	1.44	75	68
Vitamin B_{12}	Mcg	5.11	139	84
Vitamin C	Mg	96	166	96

Source: U.S. Department of Agriculture, Science and Education Adminiatration, Food Consumption and Dietary Levels of Households in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 4, April 1981), p. 19, and Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 58 and 60.

Section 3

EDUCATION

This section presents statistics on enrollment in public and private schools, colleges and universities; students graduated and degrees awarded; the highest grade of school completed; school facilities, personnel, and expenditures; and libraries.

Enrollment in elementary, intermediate and high schools in 1981-1982 totaled 200,844, about 1.0 percent less than in the preceding year and 6.8 percent below the all-time high reached in 1971-1972. There were 230 public schools with 8,139 classroom teachers and 162,805 students (81.1 percent of the total). There were also 146 private schools with 2,308 teachers and 38,039 pupils. Students graduating from public and private high schools in 1980-1981 numbered 14,647. Some 52,197 students attended colleges and universities in the State in 1981-1982, including 20,629 on the Manoa Campus of the University of Hawaii, 369 at West Oahu College, 3,478 at UH-Hilo, 20,949 at six community colleges, and 6,772 in four private colleges and universities. Eighty-seven percent of the children 5 and 6 years old were in school in 1970 (compared with 68 percent in 1950), and 53 percent in the 18- and 19-year-old group were enrolled (compared with 36 percent twenty years earlier). The expenditure per pupil in public schools rose from $989 in 1970-1971 to $2,457 in 1980-1981. Among adults, the illiteracy rate dropped from 8.4 percent in 1950 to 1.9 percent in 1970, and by 1980 approximately 20.3 percent of all residents 25 years of age or more could report having completed four or more years of college. The Hawaii State Library System, with 47 locations in all four counties, had 3.4 million books, film reels, phonorecords, and other collections in 1981, with an annual circulation of 5.3 million; the University of Hawaii libraries in the same year counted 2.2 million volumes.

The principal sources of data on education are the U.S. Bureau of the Census, Hawaii State Department of Education, University of Hawaii and private colleges and universities. Historical Statistics of Hawaii, Section 9, contains Island data back to 1820. Section 5 of the Statistical Abstract of the United States: 1981 presents comparable information for the nation as a whole.

Table 73.-- SCHOOLS, TEACHERS, PUPIL MEMBERSHIP, AND HIGH SCHOOL GRADUATES, FOR PUBLIC AND PRIVATE SYSTEMS: 1971-1972 TO 1981-1982

School year	Schools 1/			Teachers 1/		
	Total	Public	Private	Total	Public 2/	Private 3/
1971-72 ...	331	219	112	9,828	8,113	1,715
1972-73 ...	341	222	119	9,984	8,187	1,797
1973-74 ...	345	225	120	9,728	7,780	1,948
1974-75 ...	345	225	120	9,643	7,711	1,932
1975-76 ...	344	225	119	9,841	7,860	1,981
1976-77 ...	353	227	126	10,115	8,008	2,107
1977-78 ...	356	228	128	9,972	7,891	2,081
1978-79 ...	365	229	136	9,815	7,930	1,885
1979-80 ...	369	229	140	10,125	8,066	2,059
1980-81 ...	371	230	141	10,324	8,113	2,211
1981-82 ...	376	230	146	10,447	8,139	2,308

School year	Enrollment or membership 1/			High school graduates		
	Total	Public 4/	Private 5/	Total	Public	Private
1971-72 ...	215,524	182,957	32,567	13,304	11,185	2,119
1972-73 ...	214,360	181,587	32,773	13,321	11,147	2,174
1973-74 ...	212,012	178,307	33,705	13,612	11,464	2,148
1974-75 ...	211,702	176,844	34,858	13,545	11,283	2,262
1975-76 ...	212,171	176,232	35,939	13,275	11,080	2,195
1976-77 ...	210,736	174,838	35,898	13,823	11,637	2,186
1977-78 ...	208,830	172,649	36,181	13,867	11,464	2,403
1978-79 ...	206,812	170,515	36,297	14,097	11,637	2,460
1979-80 ...	205,580	168,393	37,187	14,013	11,493	2,520
1980-81 ...	202,972	165,094	37,878	14,647	12,088	2,559
1981-82 ...	200,844	162,805	38,039	(NA)	(NA)	(NA)

NA Not available.

1/ September data for all years.

2/ Special schools excluded through 1978-1979 but included beginning 1979-1980. Data for 1976-1977 and 1979-1980 revised from 1980 edition, table 52.

3/ Includes special schools for all years.

4/ Includes special schools; excludes pre-kindergarten prior to 1980-1981.

5/ Includes special schools and pre-kindergarten for all years.

Source: Hawaii State Department of Education, data supplied January 8, 1982 and February 10, 1982.

Table 74.-- SCHOOLS, TEACHERS, AND PUPIL MEMBERSHIP, SEPTEMBER 11, 1981, AND HIGH SCHOOL GRADUATES, 1980-1981, FOR PUBLIC AND PRIVATE SYSTEMS, BY ISLANDS

[Data include special schools.]

Island	Number of schools, September 11, 1981			Number of teachers, September 11, 1981		
	Total	Public	Private	Total	Public	Private
State total	376	230	146	10,447	8,139	2,308
Hawaii	40	29	11	1,074	947	127
Maui	30	19	11	694	562	132
Lanai	1	1	-	28	28	-
Molokai	6	5	1	84	82	2
Oahu	278	162	116	8,097	6,103	1,994
Kauai	20	13	7	467	414	53
Niihau	1	1	-	3	3	-

Island	Pupil membership, September 11, 1981			High school graduates, 1980-1981 school year		
	Total	Public	Private	Total	Public	Private
State total	200,844	162,805	38,039	14,647	12,088	2,559
Hawaii	20,693	18,911	1,782	1,501	1,352	149
Maui	13,602	11,326	2,276	946	810	136
Lanai	468	468	-	40	40	-
Molokai	1,601	1,562	39	124	124	-
Oahu	155,756	122,813	32,943	11,416	9,147	2,269
Kauai	8,684	7,685	999	620	615	5
Niihau	40	40	-	-	-	-

Source: Hawaii State Department of Education, data supplied January 8, 1982.

Table 75.-- PRIVATE SCHOOLS, TEACHERS, AND MEMBERSHIP, SEPTEMBER 11, 1981, AND PRIVATE HIGH SCHOOL GRADUATES, 1980-1981, BY TYPE OF CONTROL

Control	Schools	Teachers	Membership	High-school graduates
Total	146	2,308	38,039	2,559
Parochial	88	1,336	23,761	1,359
Roman Catholic	40	720	14,969	908
Other parochial	48	616	8,792	451
Non-parochial	58	972	14,278	1,200

Source: Hawaii State Department of Education, information provided February 10, 1982.

Table 76.-- PUPIL MEMBERSHIP, PUBLIC AND PRIVATE, BY GRADES: SEPTEMBER 11, 1981

Grade	Total	Public	Private
All grades	200,844	162,805	38,039
Nursery	3,192	271	2,921
Kindergarten	14,874	11,974	2,900
1	14,482	11,737	2,745
2	14,067	11,635	2,432
3	13,919	11,541	2,378
4	13,894	11,533	2,361
5	14,550	12,184	2,366
6	14,864	12,308	2,556
7	14,648	11,377	3,271
8	13,647	10,620	3,027
9	14,725	11,856	2,869
10	15,378	12,541	2,837
11	14,609	11,935	2,674
12	14,104	11,609	2,495
Specials	9,891	9,684	207

Source: Hawaii State Department of Education, data supplied January 8, 1982.

Table 77.-- EXPENDITURES, COST PER PUPIL, AVERAGE SALARIES, AND DAYS OF SCHOOL,FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1970-1971 TO 1980-1981

Fiscal year	Expenditures (dollars)		Cost per pupil 1/ (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operation	Capital outlay			
1970-1971 ..	179,070,29[illegible]	34,539,101	988.54	10,424	177 1/2
1971-1972 ..	183,830,4[illegible]	35,269,593	1,007.10	10,459	178 1/2
1972-1973 ..	184,118,84[illegible]	31,618,093	1,014.02	10,883	174
1973-1974 ..	221,923,654	33,618,196	1,257.40	11,968	176
1974-1975 ..	232,185,601	24,832,512	1,305.00	13,949	178
1975-1976 ..	268,155,310	31,983,000	1,503.39	15,111	178
1976-1977 ..	298,770,753	38,105,500	1,718.34	16,689	175
1977-1978 ..	322,185,202	23,196,000	1,883.79	17,579	175
1978-1979 ..	333,768,126	20,809,000	1,981.35	18,360	173
1979-1980 2/	360,316,441	30,489,000	2,163.62	19,858	163
1980-1981 ..	402,344,699	30,860,000	2,457.32	21,085	176

1/ Based on average daily membership.

2/ Scheduled school days numbered 177; 14 days were missed because of "blue collar strike."

Source: Hawaii State Department of Education, data supplied January 8, 1982.

Table 78.-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS: FALL, 1971 TO 1981

Year	All federally-connected pupils		Military dependents	Others 1/
	Number	Percent of total enrollment		
1971	51,143	28.0	27,962	23,181
1972	47,928	26.4	26,450	21,478
1973	45,144	25.3	25,038	20,106
1974	43,848	24.8	24,066	19,782
1975	45,746	26.0	22,246	23,500
1976	44,393	25.4	21,692	22,701
1977	43,648	25.3	21,167	22,481
1978	43,460	25.5	21,423	22,037
1979	40,745	24.2	20,951	19,794
1980 2/	37,773	22.9	18,954	18,819
1981 3/	35,034	21.6	18,518	16,516

1/ Includes dependents of civilian employees of armed forces.
2/ Revised from 1981 *Data Book*, table 67.
3/ Preliminary.
Source: Hawaii State Department of Education, *Report on Federally Connected Pupils, Hawaii Public Schools* (annual, 1971-1976), and records.

Table 79.-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS: FALL 1970 TO 1981

[Fall enrollment in regular credit programs, including concurrent registrants and early admits.]

Year (Fall)	Total, all campuses	University of Hawaii at Manoa				Univ. of Hawaii at Hilo 1/	West Oahu College 2/
		Total	Under-graduates	Grad-uates	Other 4/		
1970 ..	33,127	21,090	15,810	3,441	1,839	1,741	-
1971 ..	36,368	22,061	16,589	3,913	1,559	2,265	-
1972 ..	38,899	22,371	17,161	4,069	1,141	2,594	-
1973 ..	39,858	22,272	16,905	4,110	1,257	2,784	-
1974 ..	40,719	21,526	16,215	4,059	1,252	3,031	-
1975 ..	44,050	21,260	15,671	4,111	1,478	3,526	-
1976 ..	44,326	21,356	15,370	4,284	1,702	3,322	139
1977 ..	43,888	21,106	15,208	4,280	1,618	3,280	201
1978 ..	43,803	21,225	15,148	4,350	1,727	3,053	234
1979 ..	43,375	20,833	14,902	4,258	1,673	3,099	258
1980 ..	43,542	20,319	14,402	4,235	1,682	3,504	247
1981 ..	45,425	20,629	14,487	4,324	1,818	3,478	369

Year (Fall)	Community colleges 3/						
	Total	Hono-lulu	Kapio-lani	Lee-ward	Wind-ward 5/	Kauai	Maui
1970 ..	10,296	1,937	2,205	4,469	-	627	1,058
1971 ..	12,042	2,167	2,765	5,177	-	839	1,094
1972 ..	13,934	2,561	3,092	5,373	538	1,023	1,347
1973 ..	14,802	2,774	3,559	5,376	829	1,004	1,260
1974 ..	16,162	3,306	3,654	5,816	1,046	1,031	1,309
1975 ..	19,264	4,017	4,368	6,900	1,153	1,238	1,588
1976 ..	19,509	4,450	4,617	6,450	1,154	1,186	1,652
1977 ..	19,301	4,402	4,494	6,159	1,353	1,245	1,648
1978 ..	19,291	4,386	4,738	5,893	1,415	1,137	1,722
1979 ..	19,185	4,576	4,641	5,540	1,505	1,104	1,819
1980 ..	19,472	4,509	4,978	5,575	1,442	1,082	1,886
1981 ..	20,949	5,211	5,089	6,032	1,489	1,201	1,927

Footnotes and source follow next table.

Table 80.-- DEGREES, DIPLOMAS, AND CERTIFICATES CONFERRED BY THE UNIVERSITY OF HAWAII: 1970 TO 1981

Year ended June 30	University of Hawaii at Manoa					
	Associate	Bachelor	Master	Doctor	First professional 6/	Other 7/
1970	60	2,329	1,018	53	-	290
1971	41	2,644	1,103	78	-	420
1972	49	2,907	1,167	80	-	404
1973	65	3,050	1,272	98	-	370
1974	85	3,260	1,165	109	-	281
1975	57	3,176	1,110	94	62	213
1976	68	3,070	1,132	116	102	183
1977	58	3,076	1,019	135	113	164
1978	61	3,077	1,007	129	125	157
1979	69	2,785	1,063	122	122	134
1980	46	2,756	969	102	136	124
1981	57	2,618	963	115	152	106

Year ended June 30	University of Hawaii at Hilo 1/			West Oahu College: bachelor 2/	Community colleges 3/	
	Certificates	Associate degrees	Bachelor degrees		Certificates 8/	Associate degrees
1970	-	-	-	-	378	585
1971	151	45	37	-	424	768
1972	136	99	69	-	347	960
1973	121	124	155	-	439	1,062
1974	83	139	146	-	329	1,179
1975	81	179	189	-	352	1,402
1976	83	230	162	-	414	1,559
1977	93	255	196	6	420	1,598
1978	69	280	206	12	456	1,864
1979	92	255	166	34	509	1,964
1980	86	256	160	48	480	1,807
1981	57	261	171	47	483	1,763

1/ Includes Hilo College, College of Agriculture, and Hawaii Community College.

2/ Opened Spring 1976.

3/ Excludes Hawaii Community College, part of the University of Hawaii at Hilo

4/ Includes unclassified, special and no data on student level.

5/ Opened for instruction in 1972.

6/ Includes Doctor of Jurisprudence (J.D.) and Doctor of Medicine (M.D.).

7/ Certificates in Dental Hygiene and professional diplomas.

8/ Includes certificates of achievement.

Source: University of Hawaii, Office of Institutional Research and Analysis, data provided November 12, 1981.

Table 81.-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1980 AND 1981

Year and type of enrollment and earned degree	All private institutions	Brigham Young Univ.-Hawaii Campus	Chaminade Univ. of Honolulu	Hawaii Loa College	Hawaii Pacific College
1980					
Fall enrollment 1/	6,329	1,828	2,243	338	1,920
Undergraduate	6,182	1,800	2,124	338	1,920
Graduate	147	28	119	-	-
Other 2/	-	-	-	-	-
Earned degrees conferred: 3/					
Associate	133	21	48	-	64
Bachelor's	510	103	291	24	92
Master's	60	-	60	-	-
Others	-	-	-	-	-
1981					
Fall enrollment 1/	6,772	2,045	2,208	312	2,207
Undergraduate	6,568	1,973	2,076	312	2,207
Graduate	153	21	132	-	-
Other 2/	51	51	-	-	-
Earned degrees conferred: 3/					
Associate	149	42	29	-	78
Bachelor's	510	141	232	25	112
Master's	33	-	33	-	-
Others	-	-	-	-	-

1/ In regular credit programs.
2/ Includes unclassified and special.
3/ Year ended June 30.
Source: Compiled by Hawaii State Department of Planning and Economic Development from college officials.

Table 82.-- PRIVATE EDUCATIONAL SERVICES: 1977

[Data shown only for nongovernmental, nonparochial establishments with payroll.]

Taxation status and kind of activity or operation	Establishments	Receipts 1/ ($1,000)	Expenses ($1,000)	Paid employees, mid-March
Taxable establishments, total	64	7,642	(V)	464
Elementary and secondary schools ..	7	1,309	(V)	114
Business and secretarial schools ..	5	1,248	(V)	66
Vocational schools, except high ...	11	2,116	(V)	91
Schools and educ. services, n.e.c.	41	2,969	(V)	193
Tax-exempt establishments, total	70	51,543	48,966	3,000
Elementary and secondary schools ..	25	(V)	30,903	1,653
Colleges, universities, and professional schools	4	15,134	14,366	1,044
Schools and educ. services, n.e.c.	33	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual establishments.

V Insufficient coverage.

1/ "Revenues" for tax-exempt establishments.

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-9, Miscellaneous Subjects (June 1981), tables 20 and 21.

Table 83.-- FEDERAL SUPPORT TO UNIVERSITIES AND COLLEGES: 1971 TO 1979

[In thousands of dollars. For fiscal years.]

Fiscal year	State total	University of Hawaii at Manoa
1971	19,834	19,011
1972	22,936	22,451
1973	24,251	23,450
1974	30,850	30,412
1975	28,023	26,888
1976	37,615	34,937
1977	34,827	28,465
1978	44,070	25,884
1979	40,221	29,475

Source follows next table.

Table 84.-- FEDERAL SUPPORT TO UNIVERSITIES AND COLLEGES, BY INSTITUTION AND TYPE OF ACTIVITY: 1979

[In thousands of dollars. For fiscal year.]

Institution	Total, all activities	Academic science		Non-science
		Total academic science	R&D	
All institutions	40,221	31,131	27,970	9,090
Chaminade Univ. of Honolulu	892	-	-	892
Hawaii Loa College	170	-	-	170
Hawaii Pacific College	549	-	-	549
U. of Hawaii--Community Colleges	875	21	21	854
U. of Hawaii at Hilo	1,552	1,175	1,150	377
U. of Hawaii Systems Office	6,708	4,143	2,956	2,565
U. of Hawaii--Manoa	29,475	25,792	23,843	3,683

Source: National Science Foundation, Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1979, Final Report NSF 81-308 (1981), pp. 25 and 82.

Table 85.-- EDUCATIONAL CHARACTERISTICS: 1980

Subject	Number
SCHOOL ENROLLMENT	
Persons 3 years old and over enrolled in school	267,101
Nursery school	13,597
Public	3,544
Private	10,053
Kindergarten and elementary (1 to 8 years)	132,284
Public	110,157
Private	22,127
High school (1 to 4 years)	66,805
Public	54,528
Private	12,277
YEARS OF SCHOOL COMPLETED	
Persons 25 years old and over	546,825
Elementary (0 to 8 years)	90,305
High school: 1 to 3 years	55,118
4 years	189,212
College: 1 to 3 years	100,912
4 or more years	111,278
Percent high school graduates	73.4
SCHOOL ENROLLMENT AND LABOR FORCE STATUS	
Persons 16 to 19 years	70,055
Armed forces	5,258
Civilian	64,797
Enrolled in school	49,632
Not enrolled in school	15,165
High school graduate	10,639
Employed	6,536
Unemployed	909
Not in labor force	3,194
Not high school graduate	4,526
Employed	1,597
Unemployed	553
Not in labor force	2,376

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Provisional Estimates of Social, Economic, and Housing Characteristics, PHC80-S1-1 (March 1982), p. 15.

Table 86.-- STANFORD ACHIEVEMENT TEST RESULTS FOR GRADES 4, 6 AND 8: 1975 TO 1981

[In percent of students taking test. National norms are: above average--23%, average--54%, and below average--23%.]

Grade and year (Fall)	Reading skills			Math skills		
	Above average	Average	Below average	Above average	Average	Below average
Grade 4:						
1975	15	52	33	24	48	28
1976	12	55	33	20	46	34
1977	15	56	29	22	48	30
1978	16	57	27	23	50	27
1979	18	57	25	23	51	26
1980	18	58	24	23	51	26
1981	23	58	19	26	52	22
Grade 6:						
1975	17	54	29	25	50	25
1976	16	55	29	22	47	31
1977	16	55	29	21	47	32
1978	18	57	25	25	50	25
1979	18	59	23	26	50	24
1980	19	60	21	26	51	23
1981	21	62	17	29	52	19
Grade 8:						
1975	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1976	12	55	33	20	46	34
1977	13	54	33	19	45	36
1978	13	54	33	22	51	27
1979	13	55	32	21	51	28
1980	14	56	30	23	51	26
1981	15	56	29	24	53	23

NA Not available.

Source: State Department of Education, Office of the Superintendent, Planning and Evaluation Services Branch, "Summary Report of Grades 4, 6 and 8 Stanford Achievement Test Results, Fall 1979" (December 1979), and records.

Table 87.-- HAWAII STATE LIBRARY SYSTEM LOCATION, PERSONNEL, AND HOURS: 1970 TO 1981

Year	Number of library locations			Personnel 1/		Hours open 2/
	State total	Oahu	Other islands	Librarians	All others	
1970 ..	38	18	20	(NA)	(NA)	72
1971 ..	38	18	20	116	350.17	72
1972 ..	40	19	21	117	350.17	63
1973 ..	40	19	21	111	340.17	56
1974 ..	40	19	21	102	306.07	56
1975 ..	42	20	22	96	312.95	54
1976 ..	43	20	23	103	304.48	54
1977 ..	44	20	24	113	311.95	54
1978 ..	45	21	24	115	310.45	54
1979 ..	46	22	24	117	312.80	54
1980 ..	47	22	25	122	313.30	54
1981 ..	47	22	25	122	315.30	54

NA Not available.

1/ Full-time equivalent basis, excluding student help. The 1970 data shown in the 1981 edition, table 75, were incorrect.

2/ Weekly totals for Hawaii State Library, 478 So. King St., Honolulu.

Source: Hawaii State Department of Education, Office of the State Librarian, information submitted January 29, 1982.

Table 88. -- HAWAII STATE LIBRARY COLLECTIONS AND CIRCULATION: 1970 TO 1981

Year	Collections, June 30			Circulation, year ended June 30
	Books	Audio-visual microforms	Other print	
1970	1,067,340	(NA)	(NA)	3,645,950
1971	1,202,437	(NA)	(NA)	3,905,825
1972	1,292,020	(NA)	(NA)	4,130,736
1973	1,388,290	(NA)	(NA)	4,024,186
1974	1,473,353	(NA)	(NA)	3,984,706
1975	1,593,218	(NA)	(NA)	4,268,409
1976	1,665,098	(NA)	(NA)	4,424,434
1977	1,765,482	(NA)	(NA)	4,597,248
1978	1,837,166	425,342	770,527	4,860,029
1979	1,924,572	476,235	752,643	5,008,477
1980	2,025,200	513,595	797,691	5,042,682
1981	2,118,238	518,513	804,735	5,267,042

NA Not available.

Source: Hawaii State Department of Education, Office of the State Librarian, data submitted January 29, 1982.

Table 89.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM: 1981

District	Library locations, June 30	Personnel, June 30 1/	Circulation, year ended June 30
Total system	47	437.3	5,267,042
Oahu	22	242.5	3,640,644
Hawaii State Library	1	69.0	515,022
Library for the Handicapped ..	1	14.0	33,545
East Oahu Library District ...	12	98.5	2,146,814
West Oahu Library District ...	8	61.0	945,263
Other islands	25	127.3	1,626,398
Hawaii Library District	13	59.3	798,724
Kauai Library District	5	30.0	431,678
Maui Library District 3/	7	38.0	395,996
Administration	...	67.5	...

District	Collections, June 30		
	Books	AVM 2/	Other print
Total system	2,118,238	518,513	804,735
Oahu	1,487,651	472,614	595,576
Hawaii State Library	394,610	361,854	347,724
Library for the Handicapped ..	78,996	55,277	23,719
East Oahu Library District ...	668,137	36,461	165,338
West Oahu Library District ...	345,908	19,022	58,795
Other islands	630,587	45,899	209,159
Hawaii Library District	273,936	17,455	64,218
Kauai Library District	169,341	13,227	103,208
Maui Library District 3/	187,310	15,217	41,733
Administration	...	...	...

1/ Full-time equivalent basis. Data are limited to regular, general funded positions, and exclude student help.

2/ Audio-visual microforms.

3/ Includes libraries on Lanai (1 location), Maui (5 locations), and Molokai (1 location).

Source: Hawaii State Department of Education, Office of the State Librarian, data submitted February 2, 1982.

Table 90.-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION, BY CAMPUS: 1971 AND 1981

Campus	Number of volumes, June 30		Circulation, year ended June 30	
	1971	1981	1971	1981
All campuses	1,300,191	2,178,878	565,702	563,497
University of Hawaii at Manoa	1,116,932	1,786,122	445,220	357,285
West Oahu College	...	13,016	...	2,990
University of Hawaii at Hilo 1/	51,395	158,558	27,231	48,480
Community colleges, total 1/	131,864	221,182	93,251	154,742
Honolulu	21,400	44,442	46,098	33,691
Kapiolani	14,873	26,002	5,674	10,302
Leeward	51,148	62,063	30,050	58,125
Windward	...	25,090	...	9,618
Kauai	12,253	30,438	1,889	14,425
Maui	32,190	33,147	9,540	28,581

1/ Hawaii Community College is included with the University of Hawaii at Hilo.

Source: University of Hawaii at Manoa, University Libraries, records.

Section 4

LAW ENFORCEMENT, COURTS AND CORRECTIONS

Statistics in this section refer to crime and delinquency, the police, attorneys, the judiciary system, prisons, and youth correctional facilities.

Major offenses reported to the police in 1981 numbered 64,000, compared with 71,000 in 1980 and 43,000 in 1971. The rate per 1,000 population increased from 54 in 1971 to 74 in 1980 and 65 in 1981. Seventy-seven percent of the 1981 total occurred on Oahu. For the State as a whole, major offenses known to police in 1981 included 47 murders or cases of non-negligent manslaughter, 340 rapes, 1,453 robberies, 584 aggravated assaults, 16,726 burglaries, 40,699 cases of larceny, and 4,211 auto thefts. The value of property reported stolen in 1981 amounted to $31 million, exclusive of motor vehicles; only 7.7 percent was recovered. In 1977, when asked "Have you or your immediate family been a victim of crime (burglary, assault, etc.) in Hawaii since 1970?," forty percent of all Oahu adults and a fourth of all Neighbor Island adults answered affirmatively. Twenty percent of the major offenses known to police were cleared by arrest or otherwise in 1981. Forty-three percent of the persons arrested for major crimes and 20 percent of those arrested for lesser offenses in 1981 were less than eighteen years of age. The number of inmates in the nine State correctional institutions averaged 952 during 1981; of this number, 561 were adults serving time for felonies. Cases filed in the State Supreme Court, Intermediate Court of Appeals, four circuit courts, and four district courts and their divisions during fiscal 1981 numbered 890,000, including 793,000 traffic cases. Filings in the United States District Court for Hawaii included 595 civil cases, 1,540 criminal cases, and 781 bankruptcy cases. The last legal execution in Hawaii took place in 1947. Governmental expenditures on the criminal justice system in 1978 amounted to $106 million, more than half of the total going for police protection. There were 2,675 attorneys licensed in Hawaii as of mid-1981.

Statistics on law enforcement, courts, and corrections in Hawaii appear in the annual reports of the county police departments, the State Judiciary, the Intake Service Center, and the Administrative Office of the United States Courts. The Hawaii Criminal Justice Information Data Center issues quarterly and annual reports titled Crime in Hawaii. Figures on crime, the courts, and corrections in earlier years appear in Historical Statistics of Hawaii, Section 10. National data are summarized in the Statistical Abstract of the United States: 1981, Section 6.

Table 91.-- CRIMINAL JUSTICE SYSTEM EXPENDITURE AND EMPLOYMENT: 1978

Subject	Total expenditure ($1,000) 1/	Employment, October		Payroll, October ($1,000)
		Total	Full-time equiv.	
Total	106,461	4,390	4,372	6,120
By level of government: 2/				
State	46,818	1,613	1,606	2,190
Local	61,415	2,777	2,766	3,930
By activity:				
Police protection	56,401	2,651	2,641	3,690
Judicial	15,467	686	680	912
Legal services and prosecution	6,430	289	289	479
Public defense	2,011	53	53	74
Corrections	23,320	629	628	845
Other criminal justice	2,832	82	81	119

1/ Fiscal year ended June 30, 1978.

2/ State and local government expenditures do not add to indicated total, for unspecified reason.

Source: U.S. Department of Justice and U.S. Bureau of the Census, Summary Report, Expenditure and Employment Data for the Criminal Justice System: 1978 (September 1980), pages 14-15, 22-23, and 30-31.

Table 92.-- CRIMINAL JUSTICE SYSTEM CHARACTERISTICS: FISCAL YEARS 1978 AND 1979

Characteristic	1978	1979
Sworn police officers, June 30	1,977	1,976
Police Department personnel, June 30	2,420	2,419
Police Department vehicles, including privately owned	1,571	1,608
Police Department expenditures ($1,000)	49,144	50,992
Calls for Police Department services (1,000)	283	305
County Prosecutor personnel, June 30	80	86
Prosecuting attorneys	42	45
County Prosecutor expenditures ($1,000)	1,880	2,062
County Prosecutor filings processed	20,960	20,968
Judges, June 30:		
Supreme Court	5	5
Intermediate Court of Appeals 1/	-	-
Circuit Court, including Family Court	23	25
District Court	17	18
Judiciary support personnel, June 30	666	690
Probation Officers	79	77
Judiciary expenditures ($1,000)	14,556	15,844
Probation Officer filings	2,403	2,738
Corrections Division personnel	439	446
Corrections Division expenditures ($1,000)	17,513	19,419
Personal services	6,428	7,327
Other operating expenses	2,484	3,453
Capital outlay	8,601	8,639
Corrections Division bedspace available, December 31	...	686
Corrections Division average daily inmate population	592	637

1/ Installed April 14, 1980.

Source: Hawaii Criminal Justice Statistical Analysis Center, Hawaii State Criminal Justice Management and Administrative Statistics (January 1981), and errata sheet.

Table 93.-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTY: 1971 TO 1981

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate 1/				
1971	42,952	5,362	37,459	1,867	1,326	2,300
1972	37,091	4,480	31,594	2,047	1,195	2,255
1973	41,850	4,918	35,275	2,612	1,596	2,367
1974	51,451	5,934	43,572	3,031	1,732	3,116
1975	51,777	5,857	43,612	3,192	1,777	3,196
1976	55,603	6,164	45,307	3,918	2,172	4,206
1977	57,977	6,329	46,389	4,178	2,127	5,283
1978	63,315	6,815	51,273	4,439	2,406	5,197
1979	65,629	6,908	52,310	4,619	2,472	6,228
1980	71,270	7,355	56,885	5,208	2,637	6,540
1981	64,061	6,530	49,548	5,623	2,505	6,385

1/ Annual rate per 100,000 resident population (including armed forces), July 1, from DPED Statistical Report 147 (for 1971-1979) and U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 911 (for 1980 and 1981).

Source: County police departments, annual reports and records; Hawaii Criminal Justice Information Data Center, records.

Table 94.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE, BY COUNTIES: 1981

County	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Percent cleared 1/	
	Part I	Part II 2/	Part I	Part II 2/	Part I	Part II 2/
State total .	64,061	93,056	12,464	62,075	19.5	66.7
Honolulu	49,548	72,926	9,722	50,894	19.6	69.8
Hawaii	5,623	4,787	1,240	2,760	22.1	57.7
Kauai	2,505	2,813	436	1,205	17.4	42.8
Maui	6,385	12,530	1,066	7,216	16.7	57.6

1/ Data include prior year's offenses; percent cleared may thus exceed 100.0.

2/ Excludes traffic offenses.

Source: Hawaii Criminal Justice Information Data Center, special tabulation.

Table 95.-- ACTUAL MAJOR OFFENSES KNOWN TO POLICE, FOR THE CITY AND COUNTY OF HONOLULU: 1971 TO 1981

Calendar year	Total Part I offenses	Murder; non-negligent manslaughter	Manslaughter (negligent)	Rape	Robbery
1971	37,459	31	46	124	715
1972	31,594	46	31	144	424
1973	35,275	36	50	150	663
1974	43,572	62	84	190	951
1975	43,612	58	99	161	1,037
1976	45,307	40	111	150	1,084
1977	46,389	45	94	177	1,086
1978	51,273	35	114	181	1,478
1979	52,310	49	120	225	1,555
1980	56,885	65	120	257	1,715
1981	48,938	40	97	239	1,311

Calendar year	Aggravated assault	Burglary	Larceny		Auto theft
			Total	Over $50	
1971	341	9,599	22,349	9,426	4,254
1972	343	8,943	18,706	7,829	2,957
1973	287	10,838	19,763	8,440	3,488
1974	301	13,040	24,269	10,183	4,675
1975	311	13,287	24,480	10,757	4,179
1976	356	13,509	25,793	11,977	4,264
1977	335	13,134	27,732	13,977	3,786
1978	303	13,712	31,037	16,610	4,413
1979	349	12,664	31,616	17,539	5,732
1980	384	13,705	35,446	20,195	5,193
1981	326	12,461	30,761	17,839	3,703

Source: Honolulu Police Department, Statistical Report (annual).

Table 96.-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1981

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Percent cleared 1/	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
All Part I offenses	64,061	49,548	12,464	9,722	19.5	19.6
Murder & non-neg. manslaughter	47	40	48	40	102.1	100.0
Manslaughter (neg.) ...	1	-	1	-	100.0	-
Rape	340	265	192	153	56.5	57.7
Robbery	1,453	1,320	528	469	36.3	35.5
Aggravated assault	584	340	361	194	61.8	57.1
Burglary	16,726	12,576	2,518	1,830	15.1	14.6
Larceny over $200	13,252	10,021	8,042	6,435	19.8	20.5
Larceny, $50-$200	10,970	8,265				
Larceny, under $50	16,477	13,076				
Auto theft	4,211	3,645	774	601	18.38	16.5

1/ Data include clearance of offenses reported in previous years; percent cleared may thus exceed 100.0.

Source: Hawaii Criminal Justice Information Data Center, special tabulation.

Table 97.-- PART I OFFENSES CLEARED BY ARREST OR OTHERWISE AND AGE OF PERSONS ARRESTED FOR PART I OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1971 TO 1981

Year	Part I offenses cleared 1/		Persons arrested for Part I offenses			
				Juveniles under 18 years		18 years of age and over
	Number	Percent	Total	Male	Female	
1971 ..	8,325	22	6,730	2,770	979	2,981
1972 ..	10,028	32	5,954	2,406	1,035	2,513
1973 ..	8,721	25	6,558	2,623	1,005	2,930
1974 ..	9,727	22	8,043	3,227	1,027	3,789
1975 ..	9,235	21	7,696	3,186	1,134	3,376
1976 ..	12,747	28	8,915	3,647	1,316	3,952
1977 ..	11,460	25	8,429	3,355	1,117	3,957
1978 ..	11,955	23	8,234	3,222	1,064	3,948
1979 ..	10,844	21	8,125	3,051	1,079	3,995
1980 ..	11,522	20	9,151	3,297	1,074	4,780
1981 ..	8,701	18	8,495	2,863	985	4,647

1/ Major (Part I) offenses cleared by arrest or otherwise, including prior years offenses.

Source: Honolulu Police Department, Statistical Report (annual).

Table 98.-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES, BY AGE AND SEX, FOR THE STATE AND OAHU: 1981

Age and sex	Arrested for Part I offenses		Arrested for Part II offenses (except traffic)	
	State total	Oahu only 1/	State total	Oahu only
Total	10,832	8,772	26,300	20,484
Juveniles	4,699	3,864	5,286	3,806
Male	3,569	2,874	3,726	2,657
Female	1,130	990	1,560	1,149
Adults	6,133	4,908	21,014	16,678
Male	4,540	3,585	17,925	14,237
Female	1,593	1,323	3,089	2,441

1/ Index offenses only.

Source: Hawaii Criminal Justice Information Data Center, special tabulation.

Table 99.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED (EXCLUSIVE OF AUTOMOBILES), FOR THE CITY AND COUNTY OF HONOLULU: 1971 TO 1981

Year	Value of property reported stolen ($1,000)	Value of stolen property recovered ($1,000)	Percent recovered
1971 ...	5,509.7	335.9	6.1
1972 ...	6,249.2	566.7	9.1
1973 ...	7,660.5	980.0	12.8
1974 ...	9,732.7	558.1	5.7
1975 ...	11,628.1	828.1	7.1
1976 ...	14,438.7	1,375.4	9.5
1977 ...	15,473.3	1,496.2	9.7
1978 ...	20,151.1	1,817.2	9.0
1979 ...	21,639.6	1,861.6	8.6
1980 ...	27,605.8	1,427.3	5.2
1981 ...	26,965.5	1,961.7	7.3

Source: Honolulu Police Department, _Statistical Report_ (annual).

Table 100.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY, FOR THE STATE AND OAHU: 1981

Type of stolen property	Value of property stolen ($1,000)	Value of stolen property recovered	
		Amount ($1,000)	Percent
All property stolen:			
State total	43,701.4	11,768.5	26.9
Oahu only	34,166.3	8,375.6	24.5
Locally stolen motor vehicles:			
State total	12,928.8	9,387.9	72.6
Oahu only	9,047.2	6,660.7	73.6
Other stolen property:			
State total	30,772.6	2,380.6	7.7
Oahu only	25,119.1	1,714.9	6.8

Source: Hawaii Criminal Justice Information Data Center, special tabulation.

Table 101.-- MARIJUANA CONFISCATED BY AUTHORITIES, BY COUNTIES: 1979 TO 1981

County	Weight 1/ (tons)			Estimated value ($1,000)		
	1979	1980	1981	1979	1980	1981
State total	67.3	47.7	84.0	26,934	19,097	37,741.5
Hawaii	38.0	25.0	32.3	15,200	10,000	14,919.0
Maui	4.0	5.0	10.9	1,612	2,000	6,511.5
Honolulu 2/	17.0	14.3	28.1	6,804	5,720	11,231.0
Kauai 2/	8.3	3.4	12.7	3,317	1,377	5,080.0

1/ "Wet" unprocessed weight.

2/ 1980 figures corrected from Data Book 1981, table 92.

Source: Hawaii State Department of the Attorney General, Hawaii Criminal Justice Information Data Center, information compiled from county police departments.

Table 102.-- FINAL DISPOSITIONS OF ADULT FELONY AND MISDEMEANOR ARRESTS, BY COUNTIES: SEPTEMBER 1, 1979 TO AUGUST 31, 1980

Type of charge and disposition	State total	Honolulu	Hawaii	Kauai	Maui
FELONIES					
Arrests	2,726	2,178	250	110	188
Releases	2,325	1,894	212	81	138
Police 1/	1,926	1,675	158	27	66
Prosecutor	134	49	9	32	44
District Court	17	4	6	2	5
Circuit Court	248	166	39	20	23
Convictions	401	284	38	29	50
Non-prison sentence	310	204	31	27	48
Prison sentence	91	80	7	2	2
Percent convicted	14.6	13.0	15.2	26.4	26.6
Percent prison sentence	3.3	3.7	2.8	1.8	1.1
MISDEMEANORS					
Arrests	9,924	8,172	710	703	735
Releases	3,155	2,505	334	109	207
Police	482	273	142	17	50
Prosecutor	59	4	26	29	-
District Court	2,569	2,207	152	55	155
Circuit Court	45	21	14	8	2
Convictions	6,769	5,667	376	198	528
Percent convicted	68.2	69.3	53.0	64.5	71.8

1/ Releases at this level should not be construed to mean that police do not have enough evidence to charge. In many instances releases occur on advice of prosecutor due to large number of cases pending, to another agency, and pending further investigation and review.

Source: Hawaii Criminal Justice Statistical Analysis Center, Adult Arrest Dispositions in Hawaii, September 1, 1979-August 31, 1980 (January 1981), pp. 15, 17, 21 and 23.

Table 103.-- DISPOSITION OF ADULTS AND JUVENILES ARRESTED FOR PART I AND PART II OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1981

[Approximate data.]

Age group and disposition	Part I offenses	Part II offenses
ADULTS		
Persons arrested	4,647	16,677
Released	878	1,136
Charged	3,769	15,541
Dispositions by district and circuit courts	2,476	10,571
Convicted	868	7,280
Fine	449	5,783
Jail	274	665
Probation, suspended sentence	145	831
Other convictions	-	1
Bail forfeitures	21	622
Discharged	1,492	2,429
Stricken N/P	95	240
JUVENILES		
Arrests	3,848	3,833
Released without charges	791	202
Counseled and released	1,579	1,084
Social agencies	-	49
Family Court	1,449	2,472

Source: Honolulu Police Department, Annual Statistical Report 1981, pp. 43, 44, and 51.

Table 104.-- CHILD ABUSE AND NEGLECT REPORTS, BY ISLAND: 1967 TO 1980

Year	Abuse		Neglect	
	Reports	Confirmed	Reports	Confirmed
1967	79	(NA)	9	(NA)
1968	49	(NA)	18	(NA)
1969	228	131	208	100
1970	509	261	463	226
1971	543	279	472	225
1972	679	313	512	245
1973	552	264	527	235
1974	594	277	548	283
1975	511	262	403	161
1976	772	391	553	243
1977	1,132	551	662	290
1978	1,203	738	642	372
1979	1,409	713	881	396
1980	1,368	717	859	355
REPORTS BY ISLAND: 1980				
Oahu	1,112	595	604	252
Hawaii	110	42	114	41
Kauai	69	42	80	37
Maui	64	33	49	19
Molokai	11	5	12	6
Lanai	2	-	-	-

NA Not available.

Source: State Department of Social Services and Housing, Public Welfare Division and Research and Statistics Office, A Statistical Report on Child Abuse and Neglect in Hawaii (annual).

Table 105.-- JUDGES, MAGISTRATES, AND ATTORNEYS: 1981-1982

Category	Number
Federal judges and magistrates: 1/	
U.S. Bankruptcy Court	1
U.S. District Court	4
State justices and judges: 2/	
Supreme Court	5
Intermediate Court of Appeals	3
Circuit Courts	20
Assigned to the Family Court	2
District Courts	23
Assigned to the Family Court	5
Attorneys licensed in Hawaii 3/	2,675

1/ Full-time and part-time, as of May 25, 1982. In addition, 1 judge of the U.S. Court of Appeals maintains an office in Honolulu.

2/ Authorized full-time positions, as of June 30, 1981. The 1981 State Legislature authorized three additional judges, one for the Circuit Court of the Third Circuit and two district family court judges, effective July 1, 1981.

3/ As of June 30, 1981.

Source: Office of the Clerk, U.S. District Court, records; Office of the Administrative Director of the Courts, State Judiciary, information provided June 7, 1982.

Table 106.-- LEGAL SERVICES: 1977

[Data limited to taxable legal services.]

Subject	All legal forms	Sole practitioners	Partnerships	Professional service organizations
All establishments:				
Number	506	374	85	47
Receipts ($1,000)	68,671	15,821	40,569	12,281
Establishments with payroll:				
Number	322	200	78	44
Receipts ($1,000)	65,120	12,625	40,365	12,130
Operating expenses ($1,000)	38,393	6,732	20,359	11,302
Paid employees, mid-March	1,447	345	840	262
Associate lawyers	327	29	175	123
Paraprofessionals	82	26	47	9
All others	1,038	290	618	130
Sole practitioners and partners, mid-March	452	187	265	-

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-5, Legal Services (March 1981), tables 1 and 4.

Table 107.-- UNITED STATES DISTRICT COURT CASES: 1980 AND 1981

[Years ended June 30.]

Subject	1980	1981
Civil cases:		
Commenced	722	595
Terminations	754	518
Pending, end of period	992	1,069
Criminal cases:		
Commenced (including transfers)	1,318	1,540
Terminations	1,502	1,438
Pending, end of period	490	592
Bankruptcy:		
Commenced, total	670	781
Business 1/	126	232
Nonbusiness 1/	391	546
Terminations	326	418
Pending, end of period	1,028	1,391

1/ Data available only for cases originally filed on or after October 1, 1979, when the Bankruptcy Reform Act went into effect. The figures for 1980, therefore, cover only a nine month period.

Source: Administrative Office of the United States Courts, Annual Report of the Director for 1980 and 1981.

Table 108.-- STATE JUDICIARY TERMINATIONS: 1970 TO 1981

[Fiscal years ended June 30.]

Court and type of case	1970	1971	1972	1973	1974	1975
All courts, total ..	425,009	484,860	547,590	567,514	592,973	604,176
Supreme Court	324	375	315	347	383	405
Civil cases	76	91	72	91	88	69
Criminal cases	19	21	32	39	46	65
Other proceedings	229	263	211	217	249	271
Circuit Courts proper ...	8,045	9,211	8,553	9,323	7,686	9,334
Civil cases	3,035	3,312	3,229	3,029	2,575	3,870
Criminal cases	2,423	1,680	2,081	2,318	1,827	2,097
Felonies 3/	932	1,177	757	879	741	885
Misdemeanors 4/	1,491	503	1,324	1,439	1,086	1,212
Other proceedings	2,587	4,219	3,243	3,976	3,284	3,367
Family Courts	19,213	21,137	17,215	17,716	16,310	17,015
Civil cases	3,277	6,913	5,787	6,476	7,074	6,624
Criminal cases	23	25	12	19	21	31
Other proceedings	15,913	14,199	11,416	11,221	9,215	10,360
District Courts	397,427	454,137	521,507	540,128	568,594	577,422
Civil cases	...	...	14,143	13,888	12,831	12,232
Traffic cases	...	...	480,286	499,389	520,964	524,345
Other violations	...	...	13,952	14,796	17,667	20,733
Criminal cases	...	...	13,126	12,055	17,132	20,112
Part I	...	...	2,576	2,246	3,005	3,781
Part II	...	...	10,550	9,809	14,127	16,331

Continued on next page.

Table 108.-- STATE JUDICIARY TERMINATIONS: 1970 TO 1981 -- Con.

[Fiscal years ended June 30.]

Court and type of case	1976	1977	1978	1979	1980	1981
All courts, total ..	623,453	685,282	719,773	818,750	760,231	890,048
Supreme Court 1/	520	563	729	876	1,023	1,158
Civil cases	97	97	95	111	75	116
Criminal cases	50	41	68	149	150	136
Other proceedings	373	425	566	616	798	906
Intermediate Court of Appeals 2/	...	...	...	...	42	350
Civil cases	...	...	...	...	13	157
Criminal cases	...	...	...	...	21	45
Other cases	...	...	...	...	8	148
Circuit Courts proper ...	8,094	8,626	9,151	8,744	10,581	8,778
Civil cases	3,462	3,732	4,073	3,367	3,871	3,627
Criminal cases	1,638	1,532	1,716	1,962	2,279	1,853
Part I offenses	654	766	764	837	844	788
Part II offenses	984	766	952	1,125	1,435	1,065
Other proceedings	2,994	3,362	3,362	3,415	4,431	3,298
Family Courts	17,256	19,010	20,194	20,952	21,525	20,442
Civil cases	7,396	8,538	9,314	10,277	10,510	9,252
Criminal cases	45	24	50	40	81	45
Other proceedings	9,815	10,448	10,830	10,635	10,934	11,145
District Courts	597,583	657,083	689,699	788,178	727,060	859,320
Civil cases	10,953	10,330	10,200	11,382	11,894	15,992
Traffic cases	545,340	609,323	640,468	733,196	669,033	792,767
Other violations	24,881	18,926	18,888	22,096	22,696	24,401
Criminal cases	16,409	18,504	20,143	21,504	23,437	26,160
Part I offenses	2,515	3,254	3,368	3,651	3,513	4,426
Part II offenses	13,894	15,250	16,775	17,853	19,924	21,734

1/ Data for fiscal 1980 exclude 281 cases transferred to the Intermediate Court of Appeals: 221 civil cases, 38 criminal cases, and 22 other cases. Data for fiscal 1981 exclude 121 such cases: 76 civil, 32 criminal, and 13 other cases.

2/ The Intermediate Court of Appeals was installed on April 18, 1980. Data for fiscal 1981 exclude 1 case transferred back to the Supreme Court.

3/ Felonies through 1971; Part I offenses, 1972 forward.

4/ Misdemeanors through 1971; Part II offenses, 1972 forward.

Source: Hawaii State Judiciary, Office of the Administrative Director of the Courts, records.

Table 109.-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1979 TO 1981

[Years ended June 30.]

Court and type of action	1979	1980	1981
Supreme Court, total	963	1,213	1,251
Primary cases	338	416	356
Appeals	303	387	332
Original proceedings	35	29	24
Supplemental proceedings	625	797	895
Intermediate Court of Appeals, total	-	-	254
Primary cases	-	-	117
Appeals	-	-	117
Original proceedings	-	-	-
Supplemental proceedings	-	-	137
Circuit Court Proper, total	11,291	11,997	12,591
Primary proceedings	10,203	10,736	11,272
Civil actions	4,479	4,862	5,421
Probate proceedings	1,476	1,535	1,586
Guardianship proceedings	341	425	378
Miscellaneous proceedings	1,098	1,488	1,220
Criminal actions	2,809	2,426	2,667
Part I offenses	1,122	1,000	1,136
Part II offenses	1,687	1,426	1,531
Supplemental proceedings	1,088	1,261	1,319
Family Courts, total	22,854	23,718	23,860
Primary proceedings, referrals	19,536	19,936	20,231
Marital actions, proceedings	7,987	8,379	7,894
Adoption proceedings	840	788	723
Paternity proceedings	981	618	1,149
Miscellaneous proceedings	1,418	1,874	2,190
Criminal actions	70	99	81
Adults' referrals	796	786	654
Children and minors' referrals	7,444	7,392	7,540
Supplemental proceedings	3,318	3,782	3,629
District Court, total	801,806	772,009	843,181
Civil	12,369	13,598	16,907
Regular	10,999	11,462	13,552
Small claims	1,370	2,136	3,355
Traffic	743,863	711,727	772,650
Moving - arrest and citation	149,392	131,803	169,631
Non-moving	75,441	60,935	78,969
Parking	519,030	518,989	524,050
Other violations	24,049	22,643	27,572
Criminal actions	21,525	24,041	26,052
Part I offenses	3,560	3,754	4,579
Part II offenses	17,965	20,287	21,473

Source follows next table.

Table 110.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1979 TO 1981

[Years ended June 30.]

Court and type of termination	1979	1980	1981
Supreme Court, total	876	1,304	1,508
Opinion filed	197	141	339
Dismissal motion granted	8	5	4
Withdrawn or discontinued	72	79	117
Other disposition	599	1,079	1,048
Intermediate Court of Appeals, total	-	-	351
Opinion filed	-	-	193
Dismissal motion granted	-	-	-
Withdrawn or discontinued	-	-	16
Transferred	-	-	1
Other disposition	-	-	141
Circuit Court Proper, total	8,744	10,581	8,778
No service	491	570	488
No answer	310	463	587
No statement of readiness	47	73	90
Dismissal: Notice of	690	577	568
Stip. for	976	1,276	1,274
By judge	687	714	659
Nonjury: Trial	163	200	107
Trial not completed	6	8	6
Jury: Verdict	257	293	214
Trial not completed	16	23	25
No trial held	1,000	1,149	808
Hearings: Contested	335	478	382
Uncontested	1,585	1,970	1,370
Others	2,181	2,787	2,200
Family Courts, total	20,952	21,525	20,442
Nolle prosequi	20	21	27
Dismissal	4	12	8
Nonjury: Trial	34	39	47
Trial not completed	22	4	-
Jury: Verdict	8	3	13
Trial not completed	6	1	-
No trial held	754	538	807
Hearings: Contested	2,537	3,146	3,164
Uncontested	8,561	8,060	7,069
Counseling service	3,882	3,836	4,159
Others	5,124	5,865	5,148

Continued on next page.

Table 110.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE:
1979 TO 1981 -- Con.

[Years ended June 30.]

Court and type of termination	1979	1980	1981
District Court, total	788,178	727,060	859,320
Felonies	932	933	1,119
Stricken or discharged	163	253	289
By commitment to Grand Jury	518	512	663
By commitment to Circuit Court	251	168	167
Misdemeanors	20,572	22,504	25,041
By discharge or dismissal	4,887	4,818	6,499
By nolle prosequi	1,259	1,471	1,716
Stricken	1,828	2,784	2,523
By bail forfeiture	1,821	1,694	2,007
By commitment to Circuit Court	386	536	492
By conviction	10,391	11,201	11,804
Civil cases	11,382	11,894	15,992
By discontinuance or dismissal	3,369	3,672	5,999
By default or confession	7,163	7,334	8,853
By trial	730	812	1,044
By commitment to Circuit Court	120	76	96
Traffic and other violations	755,292	691,729	817,168
By discharge or dismissal	77,664	72,939	80,514
By nolle prosequi	13,537	8,419	11,505
Stricken	90,672	67,348	90,648
By bail forfeiture	458,113	448,467	471,610
By commitment to Circuit Court	22	43	59
By conviction	115,284	94,513	162,832

Source: The Judiciary, State of Hawaii, Annual Report, July 1, 1978 to June 30, 1979, pp. 74, 78, 83, and 88; The Judiciary, State of Hawaii, Annual Report, July 1, 1979 to June 30, 1980, pp. 65, 70, 75, and 80; The Judiciary, State of Hawaii, Annual Report, July 1, 1980 to June 30, 1981, pp. 57, 58, 63, 68, and 73.

Table 111.-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES: ANNUAL AVERAGES, 1971 TO 1981

[For fiscal years ended June 30. Excludes county facilities prior to their transfer to State control. Halawa Jail on Oahu, Hawaii County Jail, and Maui County Jail became State correctional facilities on July 1, 1975; Kauai County Jail became a State facility on June 20, 1977.]

Year	All categories	Adult facilities			Juvenile facilities	
		Felons	Misdemeanants	Not sentenced	Boys	Girls
1971	(NA)	257	(NA)	(NA)	61	12
1972	(NA)	256	(NA)	(NA)	49	9
1973	(NA)	300	(NA)	(NA)	63	19
1974	(NA)	302	(NA)	(NA)	62	17
1975	(NA)	312	(NA)	(NA)	60	16
1976 1/ ..	530	326	47	100	46	11
1977 1/ ..	544	319	39	117	56	13
1978 1/ ..	592	351	48	129	54	10
1979	698	412	48	170	61	7
1980	817	480	74	177	76	10
1981	952	561	82	210	88	11

NA Not available.

1/ Revised from 1979 edition, table 63, because of a decision to count felon probationers serving jail terms under one year as misdemeanants.

Source: Hawaii State Intake Service Center, Office of Correctional Information and Statistics, information submitted June 18, 1980, February 5, 1981, and November 13, 1981.

Table 112.-- HAWAII PAROLING AUTHORITY STATISTICS: 1980 AND 1981

[Years ended June 30.]

Item	1980	1981
Number of parolees, June 30	437	442
Parolees in Hawaii	286	284
Parolees outside Hawaii	37	43
Absconders	114	115
Minimum imprisonment terms fixed	450	530
Number of persons for whom terms fixed	187	218
Persons considered for parole	139	158
Paroles granted	50	72
Paroles denied	89	86
Persons reconsidered for minimum terms previously set	73	58
Terms reset	2	2
Terms reset/parole granted	6	5
Terms undisturbed	61	43
Deferred reconsideration	4	8
Parole violation hearings	24	24
Parole revocations	17	10
Continued on parole	3	4
Deferred decision/hearing	4	10
Pardon investigations	12	19
Persons pardoned	10	13
Persons whose paroles were suspended because their whereabouts unknown	7	7
Status reports	87	129
Discharges	76	59
Discharged from parole	35	31
Final discharge	39	25
Deceased	2	3

Source: Hawaii State Department of Social Services and Housing, Annual Report of the Hawaii Paroling Authority.

Table 113.-- LEGAL EXECUTIONS: 1826 TO 1981

Years	Persons executed 1/	Years	Persons executed	
			Total 2/	Civilians
1826-41 3/	13	1912	(NA)	1
1841-45	(NA)	1913	(NA)	3
1846 4/	2	1914	(NA)	1
1847-48	(NA)	1915	(NA)	4
1849-56	-	1916	(NA)	-
1857	1	1917	(NA)	5
1858-66	(NA)	1918-20	(NA)	-
1867 4/	2	1921	(NA)	1
1868-69	2	1922	(NA)	-
1870-71	-	1923	(NA)	1
1872-73	2	1924-26	(NA)	-
1874-79	(NA)	1927	(NA)	4
1880-81	2	1928	(NA)	-
1882-83	-	1929	(NA)	2
1884-85	(NA)	1930	(NA)	-
1886-88	-	1931	(NA)	-
1889	3	1932	1	1
1890-96	-	1933	2	2
1897	1	1934-36	-	-
1898	3	1937	1	1
1899-1901	-	1938-39	-	-
1902	1	1940	1	1
1903	-	1941	2	2
1904	1	1942-43	-	-
1905	-	1944	1	1
1906	6	1945	2	-
1907-08	-	1946	-	-
1909	2	1947	1	-
1910	1	1948-81 5/	-	-
1911	1			

Footnotes and source on next page.

Table 113.-- LEGAL EXECUTIONS: 1826 TO 1981 -- Con.

NA Not available.

1/ Data for 1900-1911 limited to civilian executions.

2/ Includes military executions: not available before 1931, two in 1945, and one in 1947. According to Honolulu, November 1981, p. 96, seven men executed by the military lie buried at Schofield Barracks; if these graves include the three persons reported to have been executed between 1931 and 1947, four military executions apparently occurred before 1931. For information on military executions during the 1940s, see Honolulu, November 1981, p. 76, and Honolulu Advertiser, January 12, 1982, p. A-1.

3/ Period ended March 15, 1841. Prior to 1826, capital punishment was inflicted at the will of the king or superior chief and without trial. For information on the early history of capital punishment in Hawaii, see Ralph S. Kuykendall, The Hawaiian Kingdom, Vol. I (1938), pp. 125-127; Charles Wilkes, Narrative of the United States Exploring Expedition, Vol. IV (1845), pp. 39-41; and J. Arago, Narrative of a Voyage Around the World (1823, reprinted 1971), pp. 84 and 137-141.

4/ Based on newspaper accounts of specific executions and possibly incomplete for the year.

5/ Capital punishment was abolished by Act 282, S.L.H. 1957, approved June 4, 1957.

Source: Letter from William Richards to Charles Wilkes, March 15, 1841; The Polynesian, August 15, 1846; Report of the Chief Justice of the Supreme Court (annual or biennial) for 1858-1888 and 1896-1897; Pacific Commercial Advertiser, April 6, 1867; Report of the Attorney General ... 1890; Bureau of Crime Statistics and Civil Identification, "Executions in Oahu Prison Since December 13, 1897" (undated list provided by Department of the Attorney General, March 10, 1976); U.S. Bureau of the Census, Mortality Statistics for 1915-1936; Vital Statistics of the United States, issued by the U.S. Bureau of the Census (1937-1944), Federal Security Agency (1945-1949), and U.S. Department of Health, Education, and Welfare (1950 and later years).

Section 5

GEOGRAPHY AND ENVIRONMENT

This section relates to land and water areas, physical geography, climate, air and water quality, noise and other geographic and environmental measurements of Hawaii.

The State consists of eight major islands and 124 minor islands with a total land area of 6,425 square miles and a general coastline of 750 miles. Honolulu is 214 miles from Hilo, 1,367 miles from Kure Atoll (the westernmost end of the State), 2,397 miles from San Francisco, and 4,829 miles from Washington, D.C. The highest peak in the State is Mauna Kea, 13,796 feet above sea level; the longest stream is Kaukonahua Stream, Oahu, 33 miles in length; the biggest lake is Halalii, on Niihau, 841 acres; and the highest named waterfall is Kahiwa, Molokai, a 1,750-foot cascade. Various measures of air pollution, such as suspended particulate matter, indicate that Honolulu is one of the cleanest cities in the nation. There is also relatively little water pollution: 39 major beaches surveyed in 1981 were found to have fecal coliform levels per 100 ml. ranging from 2.0 to 219.3, and all but one were within EPA standards. More than 1,100 species, subspecies, and varieties of native flora were endangered, threatened, or extinct, according to a 1977 survey. Climatically, Hawaii is marked by remarkably balmy temperatures and wide variations in rainfall. The all-time temperature range at Honolulu International Airport, for example, was from 53° to 92°F. Normal precipitation, however, ranges from 5.7 inches near Kawaihae, South Kohala, to 451 inches atop Waialeale. The longest volcanic eruption in Island history lasted 867 days, the worst earthquake attained 7.5 on the Richter scale, and the highest tsunami wave reached 56 feet. Water withdrawn for use in 1975 averaged 2.8 billion gallons per day, compared with 2.7 billion in 1970 and 2.0 billion in 1965. Among 21 neighborhoods on Oahu, median noise levels in 1981-1982 ranged from 40.9 decibels (in Kaneohe) to 57.1 decibels (in Pawaa).

Important sources of data include the U.S. Geological Survey, National Ocean Survey, National Weather Service, U.S. Bureau of the Census Geography Division, the Division of Water and Land Development of the State Department of Land and Natural Resources, the State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in Atlas of Hawaii, published by the University Press of Hawaii in 1973, and Hawai'i, the Natural Environment, issued by the Department of Planning and Economic Development in 1974. National data are reported in Statistical Abstract of the United States: 1981, Section 7.

Table 114.-- GREAT CIRCLE DISTANCES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES

Place	Distance from Honolulu	
	Statute miles	Kilometers
Hawaiian Islands:		
Cape Kumukahi, Hawaii	236	380
Hilo, Hawaii	214	344
Ka Lae (South Cape), Hawaii	221	356
Kailua, Kona, Hawaii	168	270
Kahului, Maui	98	158
Lanai Airport	72	116
Molokai Airport	54	87
Lihue, Kauai	103	166
Puuwai, Niihau	152	245
Nihoa	283	455
Necker Island	520	837
French Frigate Shoals	556	895
Gardner Pinnacles	688	1,107
Maro Reef	851	1,369
Laysan Island	936	1,506
Lisianski Island	1,065	1,714
Pearl and Hermes Atoll	1,208	1,944
Midway Islands	1,309	2,106
Kure Atoll	1,367	2,200
Trust Territory of the Pacific Islands:		
Majuro, Marshall Islands	2,271	3,654
Kwajalein, Marshall Islands	2,443	3,931
Kolonia, Ponape, E.C.I.	3,087	4,967
Saipan, Mariana Islands	3,704	5,960
Koror, Palau, W.C.I.	4,593	7,390
Other Pacific locations:		
Apra Harbor, Guam	3,806	6,124
Auckland, New Zealand	4,393	7,068
Avarua, Rarotonga	2,950	4,750
Funafuti, Tuvalu	2,550	4,106
Hong Kong	5,541	8,915
Johnston Island	820	1,319
Kingman Reef	1,073	1,726
Manila, Philippines	5,293	8,516
Nuku'alofa, Tongatapu	3,165	5,096
Nuku Hiva, Marquesas Islands	2,400	3,864
Pago Pago, American Samoa	2,606	4,193

Continued on next page.

Table 114.-- GREAT CIRCLE DISTANCES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES -- Con.

Place	Distance from Honolulu	
	Statute miles	Kilometers
Other Pacific locations, con.:		
Palmyra Island	1,101	1,772
Papeete, Tahiti	2,741	4,410
Suva, Fiji	3,159	5,083
Sydney (Port Jackson), Australia	5,070	8,158
Tokyo, Japan	3,847	6,190
Wake Island	2,294	3,691
North and South America:		
Anchorage, Alaska	2,781	4,475
Cape Horn, Chile	7,457	11,998
Chicago, Illinois	4,179	6,724
Cristobal, Canal Zone	5,214	8,389
Lima, Peru	5,950	9,580
Los Angeles, California	2,557	4,114
Miami, Florida	4,856	7,813
New York, New York	4,959	7,979
Portland, Oregon	2,595	4,175
San Diego, California	2,610	4,199
San Francisco, California	2,397	3,857
Seattle, Washington	2,679	4,311
Vancouver, B.C.	2,709	4,359
Victoria, B.C.	2,668	4,293
Tijuana, Mexico	2,616	4,209
Washington, D.C.	4,829	7,770
London, England	7,226	11,627
Bombay, India	8,010	12,888
Ghanzi, Botswana 1/	12,417	19,979
Equator, due south of Honolulu	1,470	2,367
North Pole	4,740	7,631
South Pole	7,660	12,333

1/ Ghanzi, Botswana, is Honolulu's antipode, that is, the point precisely opposite to it on the globe.

Source follows next table.

Table 115.-- GREAT CIRCLE DISTANCES FROM HILO AND KURE ATOLL

Places	Great circle distance	
	Statute miles	Kilometers
Hilo to --		
Honolulu, Oahu	214	344
Los Angeles, California	2,447	3,937
San Francisco, California	2,315	3,725
Kure Atoll to --		
Cape Kumukahi, Puna, Hawaii 1/	1,523	2,451
Honolulu, Oahu	1,367	2,200
Log Point, Elliot Key, Florida 2/	5,852	9,416
Tokyo, Japan	2,486	4,000
West Quoddy Head, Maine	5,788	9,313

1/ Cape Kumukahi and Kure Atoll are the points farthest apart in the Hawaiian Archipelago and State of Hawaii.

2/ Log Point and Kure Atoll are the points farthest apart in the fifty states.

Source: U. S. Department of the Interior, Geological Survey, Elevations and Distances in the United States (1970), and distance computations prepared for the Department of Planning and Economic Development.

Table 116.-- WIDTHS AND DEPTHS OF CHANNELS

Channel 1/	Width 2/		Depth 3/		
	Statute miles	Kilometers	Fathoms	Feet	Meters
Alenuihaha	29.6	47.6	1,135	6,810	2,076
Alalakeiki	6.7	10.8	137	822	251
Kealaikahiki	17.8	28.6	181	1,086	331
Auau	9.5	15.3	42	252	77
Kalohi	9.2	14.8	90	540	165
Pailolo	8.8	14.2	141	846	258
Kaiwi	25.8	41.5	367	2,202	671
Kauai	72.1	116.0	1,815	10,890	3,319
Kaulakahi	17.2	27.7	595	3,570	1,088
Niihau-Kaula	21.5	34.6	894	5,364	1,635
Niihau-Nihoa	133.9	215.5	2,425	14,550	4,435
Nihoa-Necker I.	179.6	289.0	2,100	12,600	3,840
Necker I.-French Frigate Shoals	100.3	161.4	2,130	12,780	3,895
French Frigate Shoals-Gardner Pinnacles	137.0	220.5	1,908	11,448	3,489
Gardner Pinnacles-Maro Reef	155.5	250.3	2,050	12,300	3,749
Maro Reef-Laysan I.	65.9	106.1	1,380	8,280	2,524
Laysan I.-Lisianski I.	137.4	221.1	2,805	16,830	5,130
Lisianski I.-Pearl and Hermes Atoll	162.6	261.7	2,900	17,400	5,304
Pearl and Hermes Atoll-Midway Islands	86.9	139.9	2,640	15,840	4,828
Midway Islands-Kure Atoll .	57.1	91.9	2,160	12,960	3,950

Footnotes and source on next page.

Table 116.-- WIDTHS AND DEPTHS OF CHANNELS -- Con.

1/ Listed in geographic order, from east to west. The channels were measured between the following points:

Alenuihaha: Upolu Pt., Hawaii, to Puhilele Pt., Maui;
Alalakeiki: Lae o ka Ule, Kahoolawe, to Nukuele Pt., Maui;
Kealaikahiki: Makaalae, Kahoolawe, to Kamaiki Pt., Lanai;
Auau: Kikoa Pt., Lanai, to Lahaina, Maui;
Kalohi: Wahie Pt., Lanai, to Kamalo, Molokai;
Pailolo: Lipoa Pt., Maui, to Pohakuloa, Molokai;
Kaiwi: Ilio Pt., Molokai, to Makapuu Pt., Oahu;
Kauai: Kaena Pt., Oahu, to Kamilo Pt., Kauai;
Kaulakahi: Mana Pt., Kauai, to Kaunuopou, Niihau;
Niihau-Kaula: Leahi, Niihau, to Kaula;
Niihau-Nihoa: Kuakamoku, Niihau, to Nihoa;
Nihoa-Necker Island: Nihoa to Necker Island;
Necker Island-French Frigate Shoals: Necker Island to La Perouse Pinnacle, French Frigate Shoals;
French Frigate Shoals-Gardner Pinnacles: La Perouse Pinnacle, French Frigate Shoals, to Gardner Pinnacles;
Gardner Pinnacles-Maro Reef: Gardner Pinnacles to eastern end of Maro Reef;
Maro Reef-Laysan Island: Western end of Maro Reef to Laysan Island;
Laysan Island-Lisianski Island: Laysan Island to Lisianski Island;
Lisianski Island-Pearl and Hermes Atoll: Lisianski Island to Southeast Island, Pearl and Hermes Atoll;
Pearl and Hermes Atoll-Midway Islands: Western extremity of Pearl and Hermes Atoll to Eastern Island, Midway Islands;
Midway Islands-Kure Atoll: Sand Island, Midway Islands, to Green Island, Kure Atoll.

2/ Width measured in statute miles between designated points on National Ocean Survey and Coast and Geodetic Survey charts. Width in kilometers calculated from miles (1 mile = 1.60934 km.).

3/ Depths given are the deepest soundings noted at or near the line joining the two designated points, on National Ocean Survey and Coast and Geodetic Survey charts. Depths measured in fathoms and converted to feet and meters (1 fathom = 6 feet = 1.8288 meters).

Source: Compiled by Lee S. Motteler, Pacific Scientific Information Center, Bernice P. Bishop Museum, in November 1980.

Table 117.-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS

County and island	General coastline 1/		Tidal shoreline 2/	
	Statute miles	Kilometers 3/	Statute miles	Kilometers 3/
State total 4/	750	1,207	1,052	1,693
Counties:				
Hawaii	266	428	313	504
Maui, including Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
Islands: 5/				
Hawaii	266	428	313	504
Maui	120	193	149	240
Kahoolawe	29	47	36	58
Lanai	47	76	52	84
Molokai	88	142	106	171
Oahu	112	180	209	336
Kauai	90	145	110	177
Niihau	45	72	50	80
Kaula	2	3	2	3
Northwestern Hawaiian Islands 6/	25	40	25	40
Nihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Kure Atoll	5	8	5	8

1/ Figures are lengths of general outline of seacoast. Data for the four islands of Maui County are not consistent with the reported county total.

2/ Shoreline of outer coast, offshore islands, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

3/ Derived from data expressed in statute miles; independently rounded and accordingly may not add exactly to indicated totals and subtotals. 1 mi. = 1.609 km.

4/ Among the States and Territories, Hawaii ranks fourth in general coastline and seventeenth in tidal shoreline.

5/ Data are not available for five minor islands: Molokini, Lehua, Gardner Pinnacles, Maro Reef, and Pearl and Hermes Atoll.

6/ Excludes the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Midway has a general coastline of 20 miles and a tidal shoreline of 33 miles.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Ocean Survey, The Coastline of the United States (1975) and letters dated October 24, 1961, July 5, 1972, and May 6, 1982.

Table 118.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS

County or island	Square miles			Square kilometers 1/		Acres 1/	
	Total area	Land area 2/	Inland water 3/	Total area	Land area 2/	Total area	Land area 2/
State total	6,450.4	6,425.4	25.0	16,706.5	16,641.7	4,128,256	4,112,256
Counties:							
Hawaii	4,038.0	4,037.0	1.0	10,458.4	10,455.8	2,584,320	2,583,680
Maui	1,161.1	1,160.3	0.8	3,007.2	3,005.2	743,104	742,592
Kalawao	13.3	13.3	-	34.4	34.4	8,512	8,512
Honolulu	610.9	595.7	15.2	1,582.2	1,542.9	390,976	381,248
Kauai	627.1	619.1	8.0	1,624.2	1,603.5	401,344	396,224
Islands:							
Hawaii	4,038.0	4,037.0	1.0	10,458.4	10,455.8	2,584,320	2,583,680
Maui	728.8	728.2	0.6	1,887.6	1,886.0	466,432	466,048
Kahoolawe	45.0	45.0	-	116.5	116.5	28,800	28,800
Molokini 4/	0.0	0.0	-	0.1	0.1	19	19
Lanai	139.5	139.5	-	361.3	361.3	89,280	89,280
Molokai	261.1	260.9	0.2	676.2	675.7	167,104	166,976
Oahu	607.7	592.7	15.0	1,573.9	1,535.1	388,928	379,328
Kauai	553.3	548.7	4.6	1,433.0	1,421.1	354,112	351,168
Niihau	73.0	69.6	3.4	189.1	180.3	46,720	44,544
Lehua	0.4	0.4	-	1.0	1.0	243	243
Kaula	0.4	0.4	-	1.1	1.1	280	280
Northwestern Hawaiian Islands 5/	3.2	3.0	0.2	8.2	7.7	2,036	1,895

Footnotes and source on next page.

Table 118.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS -- Con.

1/ Areas in square kilometers and acres were calculated directly from the figures shown for square miles (except for Molokini, Lehua, Kaula, and the Northwestern Hawaiian Islands, for which square miles calculated to three decimal places were used); these equivalents were independently rounded, and hence may not add exactly to the indicated totals and subtotals. 1 sq. mi. = 640 A. = 2.58999 sq. km.

2/ Dry land and land temporarily or partially covered by water, as marshland, swamps, etc.; streams and canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds under 40 acres of area.

3/ Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth of a statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than one nautical mile of water; and islands having less than 40 acres of area.

4/ More exactly, the area of Molokini is 18.6 acres (equivalent to 0.03 square miles or 0.075 square kilometers).

5/ Exclusive of the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Islands included in the State and their land areas in square miles are: Nihoa, 0.298; Necker Island, 0.091; French Frigate Shoals, 0.088; Gardner Pinnacles, 0.004; Maro Reef, awash; Laysan Island, 1.312 (plus 0.220 of inland water, for a total area of 1.533); Lisianski Island, 0.675; Pearl and Hermes Atoll, 0.122; and Kure Atoll, 0.371.

Source: Data from U.S. Bureau of the Census, Geography Division, cited in the Hawaii State Department of Planning and Economic Development, Hawai'i the Natural Environment (1974), pp. 9 and 10.

Table 119.-- MAJOR SUMMITS

[Elevation of the highest point on each island and other important peaks.]

Island and mountain	Elevation	
	Feet	Meters
Hawaii:		
Mauna Kea 1/	13,796	4,205
Mauna Loa 1/	13,677	4,169
Hualalai	8,271	2,521
Kohala	5,480	1,670
Kilauea (Uwekahuna)	4,093	1,248
Kilauea (Halemaumau Rim)	3,660	1,116
Kahoolawe:		
Lua Makika	1,477	450
Molokini	160	49
Maui:		
Haleakala (Red Hill)	10,023	3,055
Haleakala (Kaupo Gap)	8,201	2,500
Puu Kukui	5,788	1,764
Iao Needle	2,250	686
Lanai:		
Lanaihale	3,370	1,027
Molokai:		
Kamakou	4,970	1,515
Olokui	4,602	1,403
Kaunuohua	4,535	1,382
Kalaupapa Lookout	1,600	488
Puu Nana	1,381	421
Oahu:		
Kaala	4,020	1,225
Puu Kalena	3,504	1,068
Konahuanui 2/	3,150	960
Tantalus	2,013	614
Olomana	1,643	501
Koko Crater (Kohelepelepe)	1,208	368
Nuuanu Pali Lookout	1,186	361
Diamond Head	760	232
Punchbowl	500	152
Koko Head	642	196

Continued on next page.

Table 119.-- MAJOR SUMMITS -- Con.

Island and mountain	Elevation	
	Feet	Meters
Kauai:		
Kawaikini	5,243	1,598
Waialeale	5,148	1,569
Namolokama Mountain	4,421	1,348
Kalalau Lookout	4,120	1,256
Haupu	2,297	700
Hole-in-the-Mountain (Puu Konanae)	1,433	437
Sleeping Giant (Nonou)	1,241	378
Niihau:		
Paniau	1,281	390
Lehua	702	214
Kaula	550	168
Nihoa:		
Millers Peak	910	277
Necker Island:		
Summit Hill	277	84
French Frigate Shoals:		
La Perouse Pinnacles	135	41
Gardner Pinnacles	190	58
Maro Reef	Awash	Awash
Laysan Island	35	11
Lisianski Island	20	6
Pearl and Hermes Atoll	10	3
Midway Islands 3/	12	4
Kure Atoll	20	6
Kingman Reef 3/	3	1
Palmyra Island 3/	6	2
Johnston Atoll: 3/		
Sand Island	15	5

Footnotes and source on next page.

Table 119.-- MAJOR SUMMITS -- Con.

1/ The adjacent ocean floor has an average depth of 2,800 fathoms and a maximum depth of 3,045 fathoms. Thus, Mauna Kea and Mauna Loa rise respectively 30,596 feet and 30,477 feet above their submarine bases as calculated from average depths, and respectively 32,066 and 31,497 feet above as calculated from maximum depths. So measured, Mauna Kea and Mauna Loa are the world's tallest mountains.

2/ Two distinct peaks. The lower one has an elevation of 3,105 feet.

3/ Not part of the State of Hawaii.

Source: U.S. Geological Survey data cited in the Hawaii State Department of Planning and Economic Development, Elevations of Major Mountains in Hawaii (Statistical Report 52, November 7, 1967), as revised by U.S. National Cartographic Information Center, October 11, 1978; U.S. Geological Survey topographic maps; E. D. Baldwin, 1883 Molokini figure on Hawaiian Government Survey Reg. Map No. 1276; U.S.S. Tanager survey, 1923 (for Pearl and Hermes Atoll); A. B. Amerson, Jr., and P. C. Shelton, The Natural History of Johnston Atoll, Atoll Research Bull. No. 192 (The Smithsonian Institution, Dec. 1976). Data compiled with assistance of Lee S. Motteler, Pacific Scientific Information Center, Bernice P. Bishop Museum.

Table 120.-- LAND AND WATER AREA WITHIN THE FISHERY CONSERVATION ZONE

[Land and water area within the 200 nautical mile Fishery Conservation Zone surrounding the Hawaiian Archipelago.]

Category	Square nautical miles	Square statute miles	Square kilometers
Total	634,023	839,623	2,174,626
Land area	4,852	6,425	16,641
Water area	629,171	833,198	2,157,985

Source: Charles E. Harrington, Chief Geographer, Marine Surveys and Maps, National Ocean Survey, National Oceanic and Atmospheric Administration, U.S. Department of Commerce, information supplied September 15, 1978

Table 121.-- MAJOR STREAMS, BY ISLANDS

Island	Feature or stream	Length or ave. discharge
Longest water feature (miles):		
Hawaii	Wailuku River	32.0
Maui	Kalialinui-Waiale Gulch	18.0
Kahoolawe	Ahupu Gulch	4.0
Lanai	Maunalei-Waialala Gulch	12.9
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream (So. Fork)	33.0
Kauai	Waimea River-Poomau Stream	19.5
Niihau	Keanaulii-Puniopo Valley	5.9
Largest perennial stream (miles): 1/		
Hawaii	Wailuku River	22.7
Maui	Palikea Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge (million gal./day):		
Hawaii	Wailuku River	184.0
Maui	Iao Stream	54.1
Molokai	Pulena Stream	22.1
Oahu	Waikele Stream	25.7
Kauai	Hanalei River	151.0

1/ Estimated on basis of drainage area rather than stream runoff. Other major streams include Wailoa River, Hawaii (1/2-mile long); Honokohau Stream (9.4 miles long) and Iao Stream (5), both on Maui; Halawa Stream (6.4), Waikolu Stream (4.7), and Pelekunu (2.3), all on Molokai; Waikele Stream (15.3), Kipapa Stream (12.8), Waiakakalaua Stream (11.8), Nuuanu Stream (4), and Ala Wai Canal (2), all on Oahu; and the Makaweli River (15.1), Wainiha River (13.8), Hanapepe River (13.3), and Wailua River (11.8), all on Kauai.

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 15; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied May 27, 1977 and April 19, 1982.

Table 122.-- MAJOR NAMED WATERFALLS IN HAWAII, BY ISLANDS

Island	Waterfall 1/	Height (feet)		Horizontal distance (feet)	Average discharge (million gal./day)
		Sheer drop	Cascade		
Hawaii ..	Kaluahine	...	620	400	...
	Akaka	442	...	...	...
	Waiilikahi	320	...	...	6.6
	Hiilawe (3 falls)	...	300	200	...
	Rainbow	80	...	...	303.5
Maui	Honokohau	...	1,120	500	25.2
	Waihiumalu	...	400	150	...
	Waimoku	...	40	50	37.1
Molokai .	Kahiwa	...	1,750	1,000	...
	Papalaua	...	1,200	500	...
	Wailele	...	500	150	...
	Haloku	...	500	200	...
	Hipuapua	...	500	300	...
	Olupena	...	300	150	...
	Moaula	...	250	200	19.7
Oahu	Kaliuwaa (Sacred) 2/ .	80	1,520	3,000	...
	Waihee (Waimea)	40	...	...	6.8
	Manoa	...	200	250	2.4
Kauai ...	Waipoo (2 falls)	...	800	600	...
	Awini	...	480	500	...
	Hinalele	280	...	...	...
	Kapakanui	280	...	...	...
	Manawaiopuna	280	...	...	...
	Wailua	80	...	...	...
	Opaekaa	40	...	...	...
	Puwainui	20	...	...	90.9

1/ Includes the largest named waterfall on each major island, either in height or average discharge; all other named falls 250 feet high or over; and well-known smaller falls. Many unnamed falls have sheer drops of 200 feet or more.

2/ Sheer drop refers to northermost fall of a cascade of six falls.

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), table 13, as revised by the Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, June 15, 1982.

Table 123.-- LAKES

[Data shown for the largest natural or man-made lake on each island, and other lakes of interest. Excludes shoreline fish ponds and areas filled only during floods. The largest intermittent lake in the State is Halalii Lake, Niihau, with a maximum area of 840.7 acres.)

Island	Name	Category 1/	Maximum depth (feet)	Elevation (feet)	Area (acres)	Shoreline (miles)
Hawaii ..	Waiakea Pond	Natural	(NA)	Sea Level	27	2
	Lake Waiau 2/ ...	Natural	10	13,020	1.5	0.2
Maui	Kanaha Pond	Natural	(NA)	Sea Level	41	2
	Violet Lake	Natural	(NA)	5,020	3.0	(NA)
Kahoolawe	None					
Lanai ...	None					
Molokai .	Meyer Lake	Natural	5	2,021	6	1
Oahu	Wahiawa Reservoir	Man-made	85	842	302	11
	Salt Lake 3/	Natural	(NA)	Sea Level	273	2
Kauai ...	Waita Reservoir .	Man-made	23	241	424	3
Niihau ..	Halulu Lake	Natural	(NA)	Sea Level	182	3

NA Not available.

1/ At the present time there are no natural lakes on Kahoolawe, Lanai, Oahu, or Kauai.

2/ Highest lake in the State and third highest in the United States.

3/ Data refer to 1964. Since that time, Salt Lake has been mostly filled and is no longer considered a lake.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 124.-- MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLANDS

Island	Extreme length (miles)	Extreme width (miles)	Miles of sea cliffs with heights 1,000 ft. or more 1/	Miles from coast of most remote point	Percent of area within 5 miles of coast
The State ..	...	...	33	28.5	48.6
Hawaii	93	76	4	28.5	30.0
Maui	48	26	-	10.6	76.1
Kahoolawe	11	6	-	2.4	100.0
Lanai	18	13	1	5.2	100.0
Molokai	38	10	14	3.9	100.0
Oahu	44	30	-	10.6	79.0
Kauai	33	25	11	10.8	67.0
Niihau	18	6	3	2.4	100.0

Island	Percent of area with elevation --		Approximate mean altitude (feet)	Percent of area with slope --	
	Less than 500 feet	2,000 feet or more		Less than 10 percent	20 percent or more
The State ..	20.8	50.9	3,030	63.5	17.0
Hawaii	12.0	68.4	3,950	76.0	4.0
Maui	24.9	41.4	2,390	38.5	36.0
Kahoolawe	38.9	0	600	60.0	9.0
Lanai	24.8	6.3	1,140	61.0	16.0
Molokai	37.3	17.8	1,150	53.0	26.0
Oahu	45.3	4.6	860	42.5	45.5
Kauai	35.6	24.0	1,380	33.5	50.5
Niihau	78.2	0	530	68.0	12.5

1/ According to Lee S. Motteler, Pacific Scientific Information Center, Bernice P. Bishop Museum, the sea cliffs along the northeastern coast of Molokai between Umilehi Point and Puukaoku Point drop 3,250 feet at an average slope of 58 degrees. These cliffs have been described by the Guinness Book of World Records (1982 edition, p. 157) as "the highest sea cliffs yet pinpointed anywhere in the world."

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 19; U.S. Geological Survey, Elevations and Distances in the United States (1978), pp. 4-5.

Table 125.-- VOLCANIC ERUPTIONS: 1969 TO 1982

[Complete through February 24, 1982. Four volcanoes have erupted in historical times: Haleakala, last active around 1790; Hualalai, last active in 1800-1801; and Kilauea and Mauna Loa, both active during the past decade and included in this table.]

Volcano and date of outbreak	Repose period since previous eruption (months)	Duration (days)	Location 1/	Elevation (feet)	Area (square miles)	Volume (1,000 cubic yards)
Mauna Loa:						
1975: July 5	300	<1	S	13,000-12,100	5.2	39,200
Kilauea:						
1969: Feb. 22 ...	4.0	6	ER	3,100-2,900	2.3	22,000
May 24	2.0	867	ER	3,150	19.3	242,000
1971: Aug. 14 ...	-	<1	C	3,660-3,600	0.8	12,400
Sept. 24 ..	-	5	C, SWR	3,740-2,730	1.5	10,500
1972: Feb. 4	4.3	645	ER	3,150	13.7	167,000
1973: May 5	-	<1	ER	3,340-3,250	0.1	1,600
Nov. 10 ...	-	30	ER	3,250-2,900	0.4	3,700
Dec. 12 ...	0.1	203	ER	3,150	3.1	39,300
1974: July 19 ...	-	3	C, ER	3,600-3,520	1.2	9,000
Sept. 19 ..	2.0	<1	C	3,680	0.4	14,000
Dec. 31 ...	3.4	<1	C	3,600	2.9	19,600
1975: Nov. 29 ...	11.0	<1	C	3,600	0.05	330
1977: Sept. 13 ..	21.5	18	ER	1,600-2,080	3.0	45,000
1979: Nov. 16 ...	26.3	1	ER	3,270-3,200	0.1	800

1/ C, caldera; ER, east rift; S, summit; SWR, southwest rift.

Source: Gordon A. Macdonald and Douglass H. Hubbard, Volcanoes of the National Parks in Hawaii, 7th edition (Hawaii Natural History Association, December 1974), pp. 14 and 29, as corrected by Dr. Macdonald, May 5, 1976, and updated by the staff of the Hawaiian Volcano Observatory through February 24, 1982.

Table 126.-- EARTHQUAKES OF MAGNITUDE 5 OR GREATER: 1972 TO 1982

[Complete to March 15, 1982.]

Date		Location	Magnitude (Richter Scale)
1972:	Dec. 23	W. of Kona	5
1973:	Apr. 26	Hawaii	6.2
	Oct. 9	Hawaii	4.8-5
1974:	Nov. 30	Hawaii	5.5-6
1975:	Jan. 1, 2:41 AM ...	Near Pahala, Hawaii	5.1
	Jan. 1, 3:20 AM ...	Mauna Loa, Hawaii	5.1
	Jan. 2	Near Pahala, Hawaii	5.6
	Jan. 5	Mauna Loa, Hawaii	5.1
	Nov. 29, 3:35 AM ..	Puna, Hawaii	5.7
	Nov. 29, 4:47 AM ..	Puna, Hawaii	7.2
1977:	Jan. 22	100 miles S. of Kauai	5.0
1979:	March 29	40 miles S.W. of Oahu	5.5
	Sept. 21	Puna, Hawaii	5.5
1981:	March 5	Molokai area	5.0
	Nov. 10	Kilauea, Hawaii	5.3
1982:	Jan. 21, 11:52 AM .	Mauna Loa, Hawaii	5.5
	Jan. 21, 12:29 PM .	Mauna Loa, Hawaii	5.5

Source: Augustine S. Furumoto, N. Norby Nielsen, and William R. Phillips, A Study of Past Earthquakes, Isoseismic Zones of Intensity and Recommended Zones for Structural Design for Hawaii (University of Hawaii, Center for Engineering Research, June 15, 1972), pp. 16-19; Hawaii Institute of Geophysics, records; U.S. Geological Survey, National Earthquake Information Service. Data provided by Professor Augustine S. Furumoto, Hawaii Institute of Geophysics, University of Hawaii.

Table 127.-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE: 1946 TO 1982

[Correct to March 15, 1982.]

Date	Maximum height in Hawaii		Deaths in Hawaii	Damage in Hawaii (dollars)
	Meters	Feet		
1946: April 1	17.0	55.8	159	26,000,000
1952: Nov. 4	6.1	20.0	-	1,000,000
1957: March 9	16.0	52.5	-	5,000,000
1960: May 22	10.5	34.5	61	23,000,000
1964: March 27	4.8	15.7	-	67,590
1975: Nov. 29	14.6	48.0	2	1,500,000

Source: George Pararas-Carayannis, Catalog of Tsunamis in the Hawaiian Islands (U.S. Coast and Geodetic Survey, May 1969); Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. III (1969), pp. 66-86; Hawaii Institute of Geophysics, records; Harold G. Loomis, The Tsunami of November 29, 1975 in Hawaii (Hawaii Institute of Geophysics, December 1975), pp. 1 and 10; D.C. Cox and J. Morgan, Local Tsunamis and Possible Local Tsunamis in Hawaii (Hawaii Institute of Geophysics, Report HIG 77-14, November 1977).

Table 128.-- MAJOR DAMS: 1981

Name 1/	Location	Height (ft.)	Length (ft.)	Volume of water impounded (acre ft.)
Wahiawa Dam ...	Wahiawa, Oahu	98	460	7,671
Waita	Koloa, Kauai	28	3,250	6,500
Kualapuu	Kualapuu, Molokai .	58	7,100	4,265
Alexander Dam .	Kalaheo, Kauai	119	600	2,500
Nuuanu No. 4 ..	Honolulu, Oahu	73	1,730	1,420

1/ Listed by volume of water impounded.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, information supplied February 11, 1981.

Table 129.-- WATER USE, BY ISLANDS: 1975

[In millions of gallons per day.]

Island	All uses		Munici-pal	Agri-cultural 1/
	Including seawater	Fresh only		
State total	2,808	1,775	234	971
Hawaii	283	278	18	17
Maui	606	564	18	410
Lanai	2	2	1	1
Molokai	5	5	1	4
Oahu	1,430	471	183	238
Kauai	482	455	13	301
Niihau	(z)	(z)	(z)	(z)

Island	Industrial			
	Thermoelectric		Hydro-electric	Other 2/
	Fresh	Seawater		
State total	137	1,033	204	232
Hawaii	79	5	70	95
Maui	25	42	47	66
Lanai	-	-	-	-
Molokai	(z)	-	-	(z)
Oahu	16	959	-	34
Kauai	17	27	87	37
Niihau	-	-	-	-

z Less than 0.5 mgd.

1/ Maui, Oahu, and Kauai data include recycled water.

2/ Hawaii, Maui, and Kauai data include recycled water.

Source: Hawaii State Department of Land and Natural Resources, State Water Resources Development Plan and Technical Reference Document (September 1980), p. III-20.

Table 130.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1978 TO 1981

Island and beach	Number of samples, 1981	Fecal coliform density 1/ (geometric mean, MPN/100 ml)			
		1978	1979	1980	1981
Hawaii (Hilo side):					
Exit of Ice Pond	10	84.0	42.3	41.6	178.3
Leileiwi Beach Park	10	63.1	93.5	195.5	219.3
Onekahakaha	10	6.0	6.8	13.5	8.2
Puhi Bay No. 3	10	10.8	6.9	9.1	30.4
Hawaii (Kona side):					
Hapuna Beach	11	3.1	6.1	16.2	19.5
Kahaluu Beach	10	3.5	2.7	2.5	2.0
Kealakekua Bay (off curio stand) .	11	2.3	2.6	2.5	2.3
Kealakekua Bay (off canoe landing)	11	2.4	3.0	2.8	2.4
Magic Sands Beach	11	21.5	3.2	3.6	2.4
Puako Beach Lots (middle)	11	14.9	13.8	16.7	9.0
Puako Beach Lots (far end)	11	48.6	17.4	35.8	18.6
Spencer Beach Park	11	9.1	9.3	7.8	29.5
Maui:					
Hukilau Hotel shoreline	12	8.3	5.6	3.3	2.0
Kahului Breakwater	12	32.4	7.6	2.1	2.0
Wailuku Breakwater	12	387.7	5.5	4.2	2.8
Oahu:					
Ala Moana Park (ewa)	26	5.0	5.6	5.1	5.6
Ala Moana Park (center)	10	3.2	3.7	3.1	4.1
Ala Moana Park (diamond head)	11	3.9	6.8	7.9	5.4
Elks Club Beach	12	5.0	15.8	5.9	4.0
Ewa Beach	12	6.2	4.5	4.3	6.3
Ft. DeRussy Beach	12	4.2	18.5	7.2	5.2
Gray's Beach	24	6.6	6.9	5.7	5.7
Hanauma Bay	12	2.4	10.0	5.1	8.1
Kahana Park Beach	12	49.5	42.9	35.9	43.6
Kahanamoku Beach	11	4.2	17.3	8.9	4.5
Kahanamoku Lagoon (diamond head) .	25	84.9	94.8	127.3	79.8
Kailua Bay outfall shoreline	12	2.3	2.5	8.8	2.3
Kailua Beach Park	12	6.7	17.8	13.2	3.7
Kokokahi Pier	12	30.3	45.6	60.6	25.6
Kuhio Beach	18	10.6	17.9	37.3	5.2
Public Bath Beach	18	3.6	4.3	4.6	3.6
Tavern Beach	12	10.1	8.9	17.9	3.5
Sand Island Pt. #1	12	28.2	13.9	3.6	2.0
Sand Island Pt. #2	12	21.5	33.2	3.9	15.1
Sand Island Pt. #3	12	24.7	89.6	8.9	4.4
Sand Island Pt. #4	12	15.2	19.6	17.3	7.7

Continued on next page.

Table 130.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1978 TO 1981 - Con.

Island and beach	Number of samples, 1981	Fecal coliform density 1/ (geometric mean, MPN/100 ml) 1978	1979	1980	1981
Kauai:					
Brennecke Beach	4	3.6	2.9	2.7	2.0
Hanalei Bay Landing	4	64.4	25.5	30.6	16.7
Poipu Beach	4	9.0	3.7	2.3	2.7

1/ The geometric mean standard for fecal coliform density is 200 per 100 ml.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied June 4, 1982.

Table 131.-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS: 1980 AND 1981

Geographic area	Number of services, June 30 1980	1981	Consumption 1/ (millions of gallons) 1980	1981
State total	175,382	178,250	55,610	58,574
City and County of Honolulu ..	124,752	125,903	42,519	44,216
Honolulu 2/	58,082	58,349	24,168	25,086
Rest of Oahu	66,670	67,554	18,351	19,130
Hawaii County	22,446	23,215	4,433	4,664
Kauai County	10,169	10,632	2,745	2,780
Maui County	18,015	18,500	5,913	6,914
Maui	16,892	17,376	5,649	6,620
Molokai	1,123	1,124	265	294

1/ Year ended June 30.

2/ Maunalua to Moanalua.

Source: Honolulu Board of Water Supply, Annual Report and Statistical Summary for 1979-1980 and 1980-1981; Hawaii Department of Water Supply, Annual Report for 1979-1980 and 1980-81; Kauai Department of Water, records; Maui Department of Water Supply, Annual Report for the Fiscal Year Ended June 30, 1981.

Table 132.-- AIR QUALITY IN DOWNTOWN HONOLULU: 1971 TO 1981

[Sampling is conducted approximately 46 ft. above ground on the roof of the State Health Department building, 1250 Punchbowl Street, Honolulu, Hawaii.]

Year	Annual arithmetic means (ug/m^3)	
	Total suspended particulates	Sulfur oxides
1971	45	11
1972	41	11
1973	34	7
1974	35	10
1975	40	9
1976	34	23
1977	31	17
1978	29	18
1979	32	22
1980	37	18
1981	40	19
Standards: 1/		
Primary	75	80
Secondary	60	60

1/ Primary and secondary National Ambient air quality standards have been promulgated by the Federal government. Primary standards are designed to prevent adverse effects on public health, while secondary standards are designed to prevent adverse effects on public welfare, including the effects on comfort, visibility, vegetation, animals, aesthetic values, and soiling and deterioration of materials.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied June 4, 1982.

Table 133.-- SOURCES OF AIR POLLUTANT EMISSIONS, BY COUNTIES: 1981

[Percent distributions for the sums of weights of sulfur oxides, particulate matter, carbon monoxide, hydrocarbons, and nitrogen oxide emissions.]

Source	State total	Hawaii	Honolulu	Kauai	Maui
All sources	100.0	100.0	100.0	100.0	100.0
Transportation	43.0	38.1	47.4	40.6	35.8
Motor vehicles	40.1	36.2	43.9	35.7	33.1
Aircraft	2.3	1.1	2.9	2.3	1.6
Vessels	0.6	0.8	0.6	2.6	1.1
Fuel combustion in stationary sources	29.7	34.9	26.7	32.2	35.3
Steam electric	23.1	19.8	24.6	18.5	22.4
Gas utilities	0.1	(N)	0.1	(N)	(N)
Ag. fuel	6.5	15.1	2.0	13.7	12.9
Industrial process losses ..	14.6	7.1	20.3	3.2	3.5
Refinery	4.8	(N)	6.5	(N)	(N)
Petroleum storage	0.7	1.1	0.8	(N)	0.5
Metalurgical	0.1	(N)	0.1	(N)	(N)
Mineral products	6.9	3.9	10.8	0.9	1.1
Off-highway const., farms & industries	2.1	2.7	2.1	2.3	1.9
Municipal incinerator	0.9	(N)	1.3	(N)	(N)
Agricultural burning	11.7	19.3	4.3	24.2	25.4

N Less than 0.05 percent.

Source: Hawaii State Department of Health, Environmental Permits Branch, information provided June 4, 1982.

Table 134.-- AIR QUALITY AT SPECIFIED LOCATIONS: 1981

[24-hour sampling, in micrograms per cubic meter.]

Sampling station	Total suspended particulates			Sulfur dioxide		
	Annual range		Arith-metic average	Annual range		Arith-metic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Barbers Point ...	26	188	51	< 5	40	< 5
Downtown Honolulu	23	75	40	< 5	44	19
Kalihi Kai	32	93	53	< 5	8	< 5
Pearl City	19	71	34	< 5	< 5	< 5
Waikiki	18	78	36	< 5	< 5	< 5
Waimanalo	14	78	28	...	...	...
Maui:						
Kahului	28	180	76	< 5	337	74
Kihei	17	137	50	...	...	...
Hawaii:						
Hilo	10	46	19	< 5	11	< 5
Honokaa	12	66	24	...	...	...
Kauai:						
Lihue	18	83	37	< 5	< 5	< 5

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied June 4, 1982.

Table 135.-- NOISE LEVELS IN SPECIFIED NEIGHBORHOODS ON OAHU: 1981-1982

[Data collected during the latter part of 1981 and early 1982, during daylight hours only. Data were obtained from both manual sampling, utilizing on-site noise-level readouts, and automatic sampling, utilizing a community noise analyzer. Differences in noise levels as measured by the two types of sampling result from the inclusion in the automatic samplings of such sources as vehicles traveling near the microphone, barking dogs, or other instantaneous sounds. With manual samplings, these sources are eliminated from the recorded data. The 1981-1982 surveys were concentrated in Honolulu and Windward Oahu; future surveys will be conducted in Leeward Oahu and along the North Shore.]

	Noise levels (in decibels) exceeded --					
	Manual sampling			Automatic sampling		
Neighborhood	10 percent of time	50 percent of time	90 percent of time	10 percent of time	50 percent of time	90 percent of time
HONOLULU						
Aina Haina	45.6	42.1	39.5	53.5	46.2	43.2
Aina Koa	48.1	43.1	40.1	52.9	45.8	42.5
Hawaii Kai	46.5	41.6	38.9	53.5	46.9	42.9
Kahala	48.0	44.5	42.4	-	-	-
Kaimuki	51.8	44.6	41.7	57.2	47.6	43.3
Kalihi	53.5	49.6	47.4	-	-	-
Kapahulu	47.2	45.0	42.0	-	-	-
Kapalama-Liliha	46.4	45.1	42.5	-	-	-
Kuliouou	48.6	45.9	43.4	52.5	47.9	45.4
Makiki	52.7	46.9	45.3	56.5	50.5	48.6
Manoa	45.4	42.6	40.7	51.5	46.0	43.4
Moiliili	53.7	50.2	46.9	60.0	53.4	48.9
Nuuanu	46.6	43.6	40.8	-	-	-
Palolo	49.3	44.6	41.6	65.0	52.4	45.4
Pawaa	59.8	57.1	55.2	60.8	57.1	54.7
Waikiki	57.8	55.4	54.1	61.6	57.5	55.3
Waialae Iki	46.4	43.1	40.6	54.6	44.8	41.7
REST OF OAHU						
Kailua	49.2	45.5	42.9	54.9	49.6	45.2
Kaneohe	43.8	40.9	38.9	49.7	43.5	40.9
Wahiawa	47.1	44.7	42.4	51.8	47.3	43.9
Waipahu	54.1	50.5	47.4	58.8	53.6	50.4

Source: Hawaii State Department of Health, Environmental Protection and Health Services Division, Noise and Radiation Branch, data provided June 8, 1982.

Table 136.-- GOVERNMENT EXPENDITURE FOR ENVIRONMENTAL QUALITY CONTROL: 1977 TO 1979

[In thousands of dollars. For years ended June 30.]

Unit of government and year	Type of environmental quality control				
	Total	Water	Land	Air	Other
STATE OF HAWAII					
1977	14,590	13,077	852	370	291
1978	5,164	3,636	851	340	337
1979	3,993	2,403	766	307	517
CITY AND COUNTY OF HONOLULU					
1977	56,850	42,413	14,303	-	134
1978	69,290	57,318	11,873	-	99
1979	40,874	30,194	10,591	-	89

Source: U.S. Department of Commerce, Bureau of the Census, Environmental Quality Control--Government Finances, State and Local Government Special Studies (annual).

Table 137.-- AVERAGE WATER TEMPERATURES AT WAIKIKI BEACH

[°F.]

Month	Morning	Afternoon
March	75	77
August	77	82

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii, 1981.

Table 138.-- CLIMATIC DATA FOR SELECTED PLACES

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)	Average annual possible sunshine (percent)
		Coolest month	Warmest month	Lowest	Highest		
Hawaii:							
Hilo Airport	26	71.0	75.9	53	94	133.57	40
Hawaii Volcanoes Nat. Park Hdq.	3,971	57.6	63.2	37	85	102.81	...
Kailua	30	72.1	77.3	54	93	25.22	...
Puako 1/	10	73.1	79.8	52	98	9.47	...
Waimea (Kamuela)	2,670	62.3	66.8	34	90	40.05	...
Mauna Kea summit 2/	13,796	31.1	42.5	11	66	8.08	...
Maui:							
Hana	120	71.3	76.8	50	90	70.65	...
Haleakala summit	9,960	42.6	50.0	14	73	50.69	...
Kihei 3/	90	70.9	78.4	49	98	13.79	...
Kahului Airport	48	71.6	78.8	48	96	18.43	70
Lahaina	45	71.5	78.0	52	93	15.51	...
Molokai:							
Kaunakakai	12	...	...	...	...	14.08	...
Molokai Airport	450	70.2	77.6	48	90	29.21	...
Lanai:							
Lanai City	1,620	65.8	72.8	46	88	38.44	...
Oahu:							
Honolulu International Airport	7	72.3	80.7	53	93	22.90	68
Honolulu Federal Bldg. 4/	12	72.0	78.6	57	88	25.35	65
Waikiki 5/	10	71.9	80.6	51	93	27.32	...
Manoa (HSPA)	500	69.4	75.2	...	...	158.41	...
Kaneohe MCAS	10	72.9	79.1	58	90	43.88	...
Kahuku	25	71.6	78.8	49	95	41.10	...
Wheeler AFB	826	68.2	75.5	52	89	39.85	...
Waianae	20	72.1	79.7	45	96	20.31	...

Continued on next page.

Table 138.-- CLIMATIC DATA FOR SELECTED PLACES -- Con.

Island and station	Ground elevation (feet)	Average temperature (^{o}F.)		Extreme temperature of record (^{o}F.)		Average annual precipitation (inches)	Average annual possible sunshine (percent)
		Coolest month	Warmest month	Lowest	Highest		
Kauai:							
Kilauea	315	68.7	75.6	49	94	68.03	...
Kealia	9	70.2	78.0	44	93	43.28	...
Lihue Airport	103	71.2	79.1	50	90	44.18	56
Poipu (Makahuena Pt.)	52	72.4	79.4	50	93	36.39	...
Kokee (Kanalohuluhulu)	3,600	54.9	65.5	31	80	72.25	...
Waialeale	5,075	...	...	...	...	451.00	...
Northwestern Hawaiian Islands:							
Midway	10	65.0	78.6	52	89	43.60	...

1/ Temperature data are for Mohukona.
2/ Based on incomplete and non-continuous data for 1966-1972.
3/ Temperature data refer to Puunene Airport.
4/ Temperature sensors are 87 feet above the ground.
5/ Located at Honolulu Zoo. Available only from 1965.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service Pacific Region, data supplied March 17, 1976 and May 2, 1977, and National Climatic Center, Local Climatological Data, Annual Summary With Comparative Data, 1981 for Hilo, Kahului, Honolulu, and Lihue; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied July 9, 1982.

Table 139.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT

Month	Normal temperature (°F.)			Extreme temperature (°F.) 1/		Precipitation (inches)			
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest	Normal total	Maximum monthly	Minimum monthly	Maximum in 24 hours
Jan. .	79.3	65.3	72.3	87	53	4.40	14.74	0.34	6.72
Feb. .	79.2	65.3	72.3	87	53	2.46	13.68	0.32	6.88
Mar. .	79.7	66.3	73.0	88	55	3.18	20.79	0.01	17.07
Apr. .	81.4	68.1	74.8	89	59	1.36	8.92	0.01	4.21
May ..	83.6	70.2	76.9	90	62	0.96	7.23	0.05	3.44
June .	85.6	72.2	78.9	90	65	0.32	2.46	T	2.28
July .	86.8	73.4	80.1	91	67	0.60	2.01	0.03	1.03
Aug. .	87.4	74.0	80.7	92	67	0.76	3.08	T	2.35
Sept.	87.4	73.4	80.4	92	66	0.67	2.74	0.05	1.40
Oct. .	85.8	72.0	78.9	93	64	1.51	11.15	0.11	7.57
Nov. .	83.2	69.8	76.5	89	58	2.99	14.72	0.03	9.15
Dec. .	80.3	67.1	73.7	89	54	3.69	12.09	0.06	8.14
Ann. .	83.3	69.8	76.6	93	53	22.90	20.79	T	17.07

Continued on next page.

Table 139.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

Month	Relative humidity (percent) 2/		Wind (miles/hour)		Percent of possible sun-shine	Mean sky cover, sunrise to sun-set 3/	Mean number of days		
							Sunrise to sunset		Precip. .01 inch or more
	8 A.M.	2 P.M.	Mean speed	Fastest mile			Clear	Cloudy	
Jan. ...	81	63	9.9	67	63	5.5	9	9	10
Feb. ...	78	60	10.7	63	63	5.7	7	9	10
Mar. ...	73	58	11.7	59	69	5.9	7	10	9
Apr. ...	70	57	12.1	40	67	6.2	6	11	9
May	67	55	12.2	35	69	6.0	6	10	7
June ...	67	54	13.0	39	70	5.7	6	7	6
July ...	66	52	13.7	34	74	5.3	7	5	8
Aug	68	54	13.4	52	75	5.3	8	6	6
Sept. ..	67	52	11.7	36	75	5.2	8	6	7
Oct. ...	69	55	10.9	40	68	5.6	7	8	9
Nov. ...	75	59	11.0	65	61	5.7	7	9	9
Dec. ...	79	62	10.9	59	59	5.6	8	10	10
Ann. ...	72	57	11.8	67	68	5.6	86	100	101

T Trace, an amount too small to measure.

1/ For periods October 1962 through December 1964 and September 1971 through December 1981.

2/ Data for 1963, 1964, and 1972-1981.

3/ Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data and Information Service, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, 1981.

Table 140.-- CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term averages:			
Lowest monthly average minimum temp. (°F.)	February	Mauna Kea summit	23.3
Lowest monthly average daily temp. (°F.)	February	Mauna Kea summit	31.1
Highest monthly average maximum temp. (°F.)	August	Waiawa, Kauai	89.7
Highest monthly average daily temp. (°F.)	August	Puako, Hawaii	80.7
Lowest average annual rainfall (inches)		N. of Kawaihae	5.7
Highest average annual rainfall (inches)		Waialeale	451.0
Single events:			
Lowest temperature of record (°F.)	Feb. 11, 1973	Mauna Kea summit	11.
Highest temperature of record (°F.)	April 27, 1931	Pahala, Hawaii	100.
Lowest annual rainfall of record (inches)	1953	Kawaihae, Hawaii	0.2
Highest annual rainfall of record (inches)	1947-1948	Waialeale	624.
Highest wind speed of record (m.p.h.)	Jan. 17-18, 1959	Mauna Loa Obser.	105+

Source: U.S. Department of Commerce, National Weather Service, Pacific Region, data supplied March 14, 1973; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied July 9, 1982.

Table 141.-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1971 TO 1981

Year	Average temperature (°F.)			Extreme temp. (°F.)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1971 ...	76.1	71.7	79.5	56	89	26.64
1972 ...	76.2	70.4	81.1	53	90	26.94
1973 ...	77.2	72.6	81.2	55	91	14.24
1974 ...	77.5	74.0	81.2	58	92	24.02
1975 ...	76.2	72.4	80.1	56	90	24.39
1976 ...	76.8	72.0	80.8	53	91	12.90
1977 ...	78.2	73.7	82.2	59	92	12.36
1978 ...	76.8	72.4	80.5	57	91	25.05
1979 ...	77.0	69.9	81.1	57	93	16.93
1980 ...	77.5	71.9	81.6	56	91	26.90
1981 ...	77.1	73.2	80.7	53	90	13.41

Year	Relative humidity (%)		Wind speed (miles/hour)		Percent of possible sunshine	Days with precipitation .01 inch or more
	8 A.M.	2 P.M.	Annual average	Fastest mile		
1971 ...	72	57	13.3	34	70	110
1972 ...	72	57	13.2	33	65	93
1973 ...	70	54	12.7	33	63	110
1974 ...	73	58	10.9	34	61	118
1975 ...	72	56	12.2	36	62	82
1976 ...	64	52	11.5	38	60	105
1977 ...	71	55	12.2	37	68	81
1978 ...	74	58	11.9	34	69	90
1979 ...	74	57	11.4	34	68	89
1980 ...	75	59	11.9	35	69	115
1981 ...	76	59	10.7	30	72	97

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Center, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii (annual).

Table 142.-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY, 1971 TO 1981

[In inches.]

Year	Hawaii			Maui		
	Hilo Airport	Kona Airport	Keahole Airport	Kahului Airport	Kihei	Lahaina
1971 ...	140.69	27.28	...	20.13	21.12	15.93
1972 ...	98.85	28.82	16.25	15.71	13.43	20.21
1973 ...	107.97	12.49	8.37	10.27	5.92	10.13
1974 ...	112.92	35.57	...	18.68	14.97	13.01
1975 ...	99.93	20.28	...	13.74	10.63	12.19
1976 ...	114.67	17.32	...	12.83	8.84	8.86
1977 ...	90.38	14.60	...	11.50	7.88	8.28
1978 ...	119.09	18.93	...	19.15	9.91	11.97
1979 ...	158.77	...	...	26.82	21.32	20.85
1980 ...	127.74	...	...	27.87	20.27	22.69
1981 ...	89.91	...	7.82	12.85	9.72	8.13

Year	Oahu			Kauai		
	Waikiki	Hono-lulu 1/	Honolulu Airport	Koloa	Lihue Airport	Kilauea Point
1971 ...	26.70	28.61	26.64	75.33	49.62	68.67
1972 ...	24.26	26.72	26.94	66.72	43.54	59.61
1973 ...	18.79	18.66	14.24	66.78	35.27	35.54
1974 ...	24.51	28.24	24.02	86.35	45.60	119.40
1975 ...	25.98	24.63	24.39	49.91	35.52	31.29
1976 ...	13.59	...	12.90	62.60	32.83	40.99
1977 ...	15.73	...	12.36	52.51	40.34	27.82
1978 ...	27.18	25.63	25.05	70.64	39.11	40.45
1979 ...	26.22	24.78	16.93	55.98	37.09	47.21
1980 ...	28.50	27.21	26.90	78.78	54.64	45.82
1981 ...	19.09	...	13.41	66.26	38.14	56.81

1/ Old Federal Building, 335 Merchant Street. Observations suspended November 26, 1976 to March 31, 1977, and discontinued in May 1981.

Source: U.S. Department of Commerce, National Climatic Center, Local Climatological Data, Annual Summary with Comparative Data, 1981 for Hilo, Kahului, Honolulu, and Lihue; U.S. Department of Commerce, National Weather Service, Pacific Region, records; and Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 143.-- TRADE WINDS, HIGH SURF, AND TEMPERATURES IN HAWAIIAN WATERS, BY MONTHS

Month	Trade wind frequency 1/ (percent)	Expected days of strong trade winds 2/	Highest surf 3/ (average number of days)		Water temperature (°F.)	
			Flat or 1 foot	6 feet or more	Mean maximum	Mean minimum
Jan. ...	42	9	1	19	74.7	71.1
Feb. ...	55	7	1	16	75.6	70.3
March ..	61	10	1	12	76.5	71.8
April ..	74	10	3	7	77.7	73.0
May	86	7	8	3	79.5	74.7
June ...	91	7	15	-	81.1	77.7
July ...	95	10	16	-	81.1	78.3
Aug. ...	94	7	15	-	81.9	79.2
Sept. ..	83	4	10	2	81.9	78.4
Oct. ...	71	4	1	12	81.1	77.2
Nov. ...	64	8	-	19	79.3	74.5
Dec. ...	57	9	-	20	75.9	71.4
Ann. ...	65	92	71	110	78.6	74.8

1/ Mean monthly frequency of trade winds in Hawaiian waters.

2/ Expected number of hazardous days in Hawaiian waters due to strong trade winds.

3/ Observations at Sunset Beach, Oahu. Annual averages were: flat or 1 foot, 71 days; 2-5 feet, 184 days; 6-10 feet, 71 days; 11-15 feet, 26 days; 16 feet or higher, 13 days.

4/ Observations at Kaneohe, Oahu. The mean ranged from 73.0 in January and February to 80.2 in August. Absolute maximums and minimums were respectively 84 (in July, August, and October) and 68 (December and February).

Source: Paul Haraguchi, Weather in Hawaiian Waters (Honolulu: Pacific Weather, Inc., 1979), pages 14, 22, 56, and 74.

Table 144.-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT HILO, HONOLULU, AND LIHUE, FOR SELECTED DATES

(Hawaiian Standard Time)

Subject	March 21	June 21	Sept. 23	Dec. 22
Sunrise (A.M.):				
Hilo	6:24	5:42	6:09	6:51
Honolulu	6:35	5:50	6:21	7:05
Lihue	6:41	5:55	6:26	7:12
Sunset (P.M.):				
Hilo	6:32	7:02	6:16	5:47
Honolulu	6:43	7:16	6:27	5:55
Lihue	6:49	7:23	6:33	6:00
Hours of daylight:				
Hilo	12:08	13:20	12:07	10:56
Honolulu	12:08	13:26	12:06	10:50
Lihue	12:08	13:28	12:07	10:48

Source: Nautical Almanac Office, U.S. Naval Observatory, Tables of Sunrise and Sunset, No. 1083 and 1084 and records.

Table 145.-- SHADOWLESS NOONS IN HILO, HONOLULU, AND LIHUE: 1983

[Times when the sun is directly overhead in 1983.]

Location	Sun moving north		Sun moving south	
	Date	Time (P.M.)	Date	Time (P.M.)
Hilo	May 19	12:16	July 26	12:26
Honolulu	May 28	12:28	July 16-17	12:37
Lihue	June 1	12:36	July 12	12:43

Source: Walter R. Steiger, Science Center and Planetarium, Bernice P. Bishop Museum, June 21, 1982.

Table 146.-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA: 1970 TO 1981

[Counts are made in late December, in a circle, 15 miles in diameter, centered near Nuuanu Pali.]

	Annual averages			
Species 1/	1970-1974	1975-1979	1980	1981
All species:				
Species	49	54	44	48
Individual birds	11,614	15,811	20,226	19,427
Endemic species:				
'Apapane	35	135	147	153
Hawaiian Coot	69	35	28	28
Hawaiian Stilt	112	128	115	92
Oahu 'Amakihi	42	132	152	159
Indigenous species:				
Great Frigatebird	614	597	615	366
Red-footed Booby	1,463	1,401	1,132	1,063
Introduced species:				
Barred Dove	1,468	2,216	2,541	3,694
Cattle Egret	759	1,156	1,072	682
Common Myna	2,567	2,241	3,577	2,917
House Sparrow	1,373	1,155	1,684	1,604
Japanese White-eye	450	1,165	1,003	970
Red-vented Bulbul	31	503	1,174	1,159
Spotted Dove	586	1,091	1,104	1,393
Migratory species:				
American Golden Plover	564	1,138	1,884	1,621
Ruddy Turnstone	97	165	397	361

1/ Separate data are shown for endemic birds averaging more than 25 individuals in 1975-1979, indigenous birds more than 200, introduced birds more than 500, and migratory species and stragglers more than 100. Endemic birds are those peculiar to a particular region, in this case Hawaii, and therefore found nowhere else in the world; indigenous birds are those native to a given region, in this case Hawaii, but with a total range of distribution encompassing a much wider area. The classification is that in Andrew J. Berger, Hawaiian Birdlife (1972).

Source: Hawaii Audubon Society The 'Elepaio (monthly).

Table 147.-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1980 AND 1981

Location	June 30, 1980	June 30, 1981
Along City and County streets and highways 1/	108,202	110,975
In City and County parks	95,700	96,250

1/ Excludes Federal, State, and private thoroughfares.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 148.-- ENDANGERED, THREATENED, AND EXTINCT SPECIES OF NATIVE HIGHER PLANTS: 1977

Status	Species, subspecies, and varieties	Percent
Total native flora	2,200	100.0
Endangered, threatened, or extinct 1/ ...	1,113	50.6
Endangered	646	29.4
Threatened	197	8.9
Extinct	270	12.3
Not endangered, threatened, or extinct .	1,087	49.4

1/ For the other 49 States, 2,140 (or 10.7 percent) of all 20,000 native higher plants are endangered, threatened, or extinct.

Source: Edward S. Ayensu and Robert A. DeFilipps, Endangered and Threatened Plants of the United States (Smithsonian Institution and the World Wildlife Fund, Inc., 1978), p. xiii.

Section 6

LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories is given elsewhere: parks in section 7, farms in section 19, forests in section 20, cane land and industrial parks in section 22, and shopping centers in section 23.

Out of the 4,128,000 acres in the State, almost 2,200,000 are in unused open space. Other major categories include agriculture, with 1,347,000 acres, services (including military installations), with 123,000, and recreation, with 280,000. In the Honolulu Standard Metropolitan Statistical Area (which is coterminous with Oahu), land in residential use increased from 22,600 acres in 1969 to 27,700 in 1980; during the same 11-year span, agricultural land declined from 88,900 to 74,900 acres. For the State as a whole, the Land Use Commission has zoned 155,000 acres as "urban," 1,976,000 as "conservation," 1,972,000 as "agricultural," and 9,000 as "rural."

Recent data on land ownership indicate that the Federal government owns 7.3 percent of all land, the State and counties own 34.8 percent, and private owners (chiefly large estates) have 57.9 percent. Total Federal holdings reported by the General Services Administration in 1979 came to 660,600 acres, exclusive of leased land (52,000 acres); most of the Federal land is in wildlife, park and military use. The State Department of Hawaiian Home Lands holds about 190,000 acres, divided among 3,034 lessees. Total land parcels in the State number 380,000.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely. An example of such difficulties is the wide range in estimates of Federal land, with totals ranging from 297,000 acres to 661,000. Statistics on military land use are likewise confusing, going as high as 175,000 acres and as low as 56,000.

Reports of the U.S. Department of Agriculture and General Services Administration, Hawaii State Department of Hawaiian Home Lands, Department of Land and Natural Resources, Department of Planning and Economic Development, Department of Taxation, and Land Use Commission, and county planning departments provided the data for this section. Greater detail appears in DPED Statistical Report 98, Land Use and Ownership Trends in Hawaii, issued in 1973. Historical Statistics of Hawaii, Section 12, contains limited information for earlier years. Statistics for the nation as a whole are available in Sections 8 and 24 of the Statistical Abstract of the United States: 1981.

Table 149.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1969 AND 1980

Subject	1969: Oahu total	1980		
		Oahu total	Honolulu District	Rest of Oahu
LAND USE (IN ACRES)				
All existing uses	381,933	372,793	51,479	321,314
Single family	21,679	25,214	8,204	17,009
Multi-family	911	2,458	1,089	1,369
Industrial	6,176	6,818	2,946	3,873
Commercial	1,645	4,319	1,752	2,567
Hotel	128	239	124	115
Agriculture	88,868	74,856	308	74,548
Usable vacant	48,902	39,132	3,252	35,880
Other	213,624	219,757	33,804	185,953
STRUCTURES BY YEAR BUILT				
All structures	117,513	139,751	63,019	76,732
Before 1930	26,599	8,897	6,816	2,081
1930 to 1939		10,307	6,599	3,708
1940 to 1949	20,419	16,852	9,589	7,263
1950 to 1959	32,838	31,212	15,144	16,068
1960 to 1969	37,657	41,816	15,876	25,940
1970 and later	-	25,255	7,393	17,862
Not reported and unknown	-	5,412	1,602	3,810
NONRESIDENTIAL FLOOR AREA 1/ (1,000 SQUARE FEET)				
All nonresidential floor area	84,346	118,083	97,067	21,016
Transportation	3,522	4,148	4,003	145
Manufacturing	8,959	9,101	6,634	2,468
Utilities and communications	1,481	2,022	1,643	379
Contract construction	2,425	2,876	2,160	717
Wholesale trade and warehousing	7,309	11,562	9,076	2,485
Commercial retail	13,376	18,484	12,881	5,603
Commercial services	13,934	20,868	18,374	2,494
Public and quasi-public buildings	25,186	22,809	18,555	4,253
Hotel	6,993	19,651	18,974	677
Vacant or unknown uses	1,161	6,562	4,767	1,795

Continued on next page.

Table 149.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1969 AND 1980 -- Con.

Subject	1969: Oahu total	1980		
		Oahu total	Honolulu District	Rest of Oahu
DWELLING UNITS BY TYPE				
All dwelling units	158,861	238,521	139,281	99,240
Single family and duplex	105,666	127,079	54,867	72,212
Low density multi-family	48,168	10,436	1,007	9,429
High density multi-family	5,027	101,006	83,407	17,599

1/ For definitions, see City and County of Honolulu, Department of General Planning, Planning Data for Oahu: 1975 Land Use Data by Small Area (May 1978).

Source: City and County of Honolulu, Department of General Planning, records; State Department of Transportation, Oahu Transportation Study printouts dated March 30, 1971.

Table 150.-- LAND USE, FOR HAWAII COUNTY, 1978, AND MAUI AND KAUAI COUNTIES, 1972

[In acres.]

Land use	Hawaii County (Sept. 1978)	Maui County (Spring 1972)			Kauai County (May 1972)	
		Maui and Kahoolawe	Lanai	Molokai	Kauai	Niihau
All uses 1/	2,519,709	490,232	89,072	168,258	357,978	47,088
Residential	12,337	17,292	256	2,963	5,968	9
Manufacturing	625	774	-	754	177	3
Mfg. services 2/	1,566	657	54	54	5,880	7
Commercial 3/	430	233	13	38	113	-
Services 4/	35,588	30,986	80	810	2,336	385
Social and cultural 5/ .	1,910	1,302	15	93	361	5
Recreation 6/	250,034	18,778	89	34	5,224	-
Agriculture	810,458	197,900	15,020	37,199	167,650	43,381
Transportation 7/	2,119	776	165	24	1,273	-
Unused open spaces 8/ ..	1,404,642	221,534	73,380	126,289	168,996	3,298

1/ Excludes public streets and highways.

2/ Includes warehousing, construction services, and public utilities.

3/ Retail and wholesale trade.

4/ Includes commercial amusement and recreation, hotels, military installations, government offices, parking, cemeteries, personal services, business and repair services, professional services, and finance, insurance, and real estate.

5/ Educational, cultural, and religious.

6/ Excludes commercial amusement and recreation services.

7/ Includes airports, docks, and land transportation facilities.

8/ Includes vacant land, forest reserve, lakes, steep land, and undedicated streets.

Source: Hawaii State Department of Planning and Economic Development, Kauai County Land Inventory Report: 1972 (1974), and Maui County Land Inventory Report: 1972 (1974); County of Hawaii, Department of Research and Development, County of Hawaii Data Book 1980, p. 84.

Table 151.-- LAND PARCELS, BY COUNTIES: 1972 TO 1982

[As of July 1, 1972-1976 and January 1, 1977-1982.]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1972	280,540	134,880	25,472	108,314	11,874
1973	290,512	141,651	26,633	109,809	12,419
1974	302,987	149,521	28,474	111,463	13,529
1975	316,240	158,069	31,137	112,283	14,751
1976	329,695	167,044	34,148	113,406	15,097
1977	335,411	170,554	34,869	114,618	15,370
1978	342,284	174,125	36,283	115,832	16,044
1979 1/	352,430	177,818	38,336	119,049	17,227
1980 1/	366,375	186,555	39,375	121,688	18,757
1981	370,367	192,755	41,601	115,958	20,053
1982	379,831	197,402	43,955	117,193	21,281

1/ Figures for Hawaii County for 1979 and 1980 may not be comparable to those for other years because of the possibility of double-counting for parcels with multi-pitt codes.

Source: City and County of Honolulu, Department of Finance, Property Technical Office, records.

Table 152.-- ACREAGE OF LAND USE CLASSES, BY COUNTIES: 1982

[Based on land use classifications used for real property assessment purposes.]

Land use class 1/	State total	City and County of Honolulu 2/	County of Maui 3/	County of Hawaii 3/	County of Kauai 3/
All uses 4/	3,982,103	343,514	761,527	2,480,969	396,093
Single family residential	70,418	45,772	5,619	15,295	3,732
Apartment	4,378	1,131	1,317	1,417	513
Commercial	2,444	1,184	381	675	203
Industrial	14,755	6,497	1,347	5,670	1,241
Agricultural	1,908,646	137,539	402,898	1,171,330	196,879
Conservation	1,950,491	144,906	328,797	1,284,773	192,014
Hotel and resort	1,016	103	365	98	449
Two or more family residential	29,956	6,381	20,803	1,711	1,061

1/ Based on "Pitt codes" as established by the "Pittsburgh Law" of differential tax rates for real property assessment and taxation as specified in Sec. 246-10, Hawaii Revised Statutes (1976 Replacement), 1981 supplement.

2/ As of February 26, 1982.

3/ As of March 1, 1982.

4/ Excludes public streets and highways and other areas not in parcels of record, and thus differs somewhat from the official figures based on measurements of the Geography Division of the U.S. Bureau of the Census. Those Census figures for total area (including inland water) are: State, 4,128,256 acres; Honolulu, 390,976; Maui, 751,616; Hawaii, 2,584,320; Kauai, 401,344.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 153.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1982

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes. All data are approximate.]

Year and month	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
1964: August ...	4,111,500.0	117,800.0	1,862,600.0	2,124,400.0	6,700.0
1969: August ...	4,111,500.0	140,163.3	2,009,086.7	1,955,875.0	6,375.0
1974: March	4,111,500.0	147,472.0	1,986,428.9	1,968,727.2	8,871.9
1975: February .	4,111,500.0	148,921.4	1,976,995.7	1,976,695.4	8,887.5
1977: January ..	4,111,500.0	149,262.9	1,976,995.7	1,976,327.2	8,914.2
1978: January ..	4,111,500.0	151,012.5	1,976,931.4	1,974,339.5	9,216.7
1979: January ..	4,111,500.0	151,929.6	1,976,105.9	1,974,229.8	9,234.7
1980: January ..	4,111,500.0	152,199.2	1,975,865.1	1,974,195.5	9,240.3
1981: January ..	4,111,500.0	154,318.8	1,975,836.4	1,972,103.5	9,241.3
1982: January ..	4,111,500.0	154,725.8	1,975,672.2	1,971,886.0	9,216.0

Footnotes and source follow next table.

Table 154.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS, BY ISLANDS: JANUARY 1982

[See headnote of preceding table.]

Island	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
State total	4,111,500.0	154,725.8	1,975,672.2	1,971,886.0	9,216.0
Hawaii	2,573,400.0	35,562.5	1,309,331.7	1,227,893.8	612.0
Maui	465,800.0	15,705.5	193,678.7	252,663.8	3,752.0
Kahoolawe	28,800.0	-	28,800.0	-	-
Lanai	90,500.0	2,338.5	38,202.5	47,239.0	2,720.0
Molokai	165,800.0	3,293.1	49,767.7	111,840.5	898.7
Oahu	385,300.0	87,006.1	154,859.8	143,434.1	-
Kauai	353,900.0	10,820.1	198,731.8	143,114.8	1,233.3
Niihau	45,700.0	-	-	45,700.0	-
Kaula and Lehua	400.0	-	400.0	-	-
Other islands 3/	1,900.0	-	1,900.0	-	-

1/ These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5.

2/ For definitions, see Hawaii Revised Statutes, 1976 Replacement, Section 205-2.

3/ The Northwestern Islands, from Nihoa to Kure Atoll, excluding Midway.

Source: Hawaii State Department of Planning and Economic Development, Land Use Commission, data supplied February 18, 1982.

Table 155.-- LAND OWNERSHIP, BY ISLANDS: 1968-1978

[In acres. Includes area in public thoroughfares on Hawaii but excludes it for other islands.]

Island	Survey date	All land 1/	Land owned by government 2/			Privately owned land 3/
			Federal	State	Counties	
State total ..	...	4,045,511	296,803	1,394,552	13,335	2,340,821
Percent	...	100.0	7.3	34.5	0.3	57.9
Hawaii	1971	2,516,979	200,995	985,269	839	1,329,876
Maui	1972	461,402	12,275	155,284	365	293,478
Kahoolawe	1972	28,832	28,819	13	-	-
Lanai	1972	89,071	8	169	2	88,892
Molokai	1972	168,257	1,839	39,652	2	126,764
Oahu	1978	373,216	50,634	62,073	11,008	249,501
Kauai	1972	357,977	1,977	149,276	1,119	205,605
Niihau	1972	47,217	256	256	-	46,705
Other islands 4/ ..	1968	2,560	-	2,560	-	-

1/ Because of the omission of public thoroughfares and for other reasons, totals by island may differ considerably from official area estimates in other tables in this volume.

2/ State land ceded by presidential proclamation or governor's executive order to the federal government appears in most cases to have been classified for this table as federal land, even though title to it technically remains with the state. Land ceded by the state to the counties, in contrast, has probably been classified as state land. For both types of ceded land, treatment may have varied from parcel to parcel, and no firm statement is possible.

3/ For data on the leasehold status of privately owned land, see the two following tables.

4/ Lehua, Kaula, and the Northwestern Hawaiian Islands other than Midway.

Source follows next table.

Table 156.-- PRIVATELY OWNED LAND, LEASED AND UNLEASED, BY ISLANDS: 1968-1978

[In acres.]

Island	Survey date	All private land	Not leased	Leased 1/
State total	...	2,340,821	1,872,207	468,614
Hawaii	1971	1,329,876	1,026,003	303,873
Maui	1972	293,478	255,272	38,206
Kahoolawe	1972	-	-	-
Lanai	1972	88,892	88,882	10
Molokai	1972	126,764	104,089	22,674
Oahu	1978	249,501	165,727	83,774
Kauai	1972	205,605	185,529	20,076
Niihau	1972	46,705	46,705	-
Other islands 2/	1968	-	-	-

1/ To either governmental or private lessees. For Oahu data by type of lessee, see the following table.

2/ Lehua, Kaula, and the Northwestern Hawaiian Islands (except Midway).

Source: Hawaii State Department of Planning and Economic Development, Hawaii Urban Planning Information Center, Land Inventory Report; 1972 for Hawaii County (1974, p. 19), Maui County (1974, pp. 25-26), and Kauai County (1974, pp. 25 and 29), and underlying data; Hawaii State Department of Land and Natural Resources, Report to the Governor 1973-1974, p. 54 (for Lehua, Kaula, and the N.W.H.I.); Honolulu Department of General Planning records.

Table 157.-- LAND OWNERSHIP AND CONTROL, FOR OAHU: 1978

[In acres.]

Lessee	Owner				
	All owners	Federal	State	City and County	Private
Total land ..	373,216	50,634	62,074	11,007	249,501
None	272,532	45,990	50,045	10,770	165,727
Federal	2,816	-	2,706	-	110
State	193	33	-	157	3
City and County ..	1,187	25	1,148	-	14
Private	96,488	4,586	8,175	80	83,647

Source: City and County of Honolulu, Department of General Planning, records.

Table 158.-- ACRES IN HAWAII OWNED IN FEE BY SELECTED MAJOR LANDOWNERS: 1964, 1980 AND 1981

[Some of these figures are not exact accountings of acres owned but are the landowners' best estimates.]

Landowner	1964	1980	1981
Bernice P. Bishop Estate	369,700	341,764	341,546
Richard S. Smart (Parker Ranch) 1/	185,610	120,000	120,000
Castle & Cooke, Inc.	154,759	150,370	150,198
C. Brewer & Company, Ltd.	145,147	98,491	98,604
Samuel M. Damon Estate	143,842	122,955	122,955
Alexander & Baldwin, Inc.	122,788	94,100	95,300

1/ The total size of the Parker Ranch in 1981, including leased land, was 220,000 acres.

Source: Legislative Reference Bureau, Public Land Policy in Hawaii: Major Landowners, Report No. 3 (1967), p. 17; data for 1980 and 1981 supplied by landowners listed.

Table 159.-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1977 TO 1979

Subject	Sept. 30, 1977	Sept. 30, 1978 1/	Sept. 30, 1979 2/
OWNED			
Number of installations	271	284	295
Land area, total (acres)	407,904.3	402,938.6	660,620.1
Urban	54,810.1	(NA)	55,696.9
Rural	353,094.2	(NA)	604,923.2
Number of buildings	14,512	14,610	14,481
Cost, total ($1,000) 3/	1,438,050	1,448,743	1,474,050
Land	52,152	52,150	62,462
Buildings	772,361	786,375	789,851
Structures and facilities	613,537	610,218	621,737
Predominant usage (acres):			
Agriculture and grazing	-	-	-
Forest and wildlife 2/	3,106.4	3,108.6	255,620.2
Parks and historic sites	228,898.9	228,898.9	228,904.1
Power development and distribution	-	-	-
Reclamation and irrigation	-	-	-
Office building locations	52.3	50.5	54.6
Military, excluding airfields	163,835.7	163,439.8	169,258.8
Airfields	3,738.0	3,738.0	3,745.0
Harbor and port facilities	156.6	23.6	23.6
Flood control and navigation	1,480.8	1,480.8	1,480.8
Vacant	1.5	1.5	1.5
Institutional	359.5	359.5	359.5
Housing	84.5	85.1	84.2
Storage	529.8	139.2	139.2
Industrial	5,179.7	1,132.5	203.0
Research and development	6.2	6.2	6.2
Other land	474.4	474.4	739.4
LEASED			
Number of leases	226	229	542
Land area, total (acres)	47,262.0	48,542.9	51,986.3
Urban	147.0	147.2	168.1
Rural	47,115.0	48,395.7	51,818.2
Number of building locations	157	153	159
Floor area of buildings (sq. ft.) ..	352,876	307,246	303,557
Annual rental ($1,000)	1,346	1,414	1,478

Footnotes and source on next page.

Table 159.-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1977 TO 1979 -- Con.

NA Not available.

1/ Corrected from published data, which overstated Navy acreage and the State total by 195,359.7 acres.

2/ Data for 1979 are not comparable to figures for earlier years. According to a letter from the General Services Administration, "this increase of nearly 258,000 acres is almost entirely due to a correction of acreage holdings submitted by the U.S Fish and Wildlife Service. That office revised a Hawaiian Islands National Wildlife Refuge holding from 1,906.5 acres to 254,418.1 acres to include the lagoon water acreage of the circular reefs and shoals."

3/ At time of acquisition. Includes estimated equivalent cost of properties acquired through donation, exchange, devise, forfeiture, or judicial process.

Source: General Services Administration, Summary Report of Real Property Owned by the United States Throughout the World (annual) and Summary Report of Real Property Leased to the United States Throughout the World (annual). The 1978 corrections were telephoned to DPED on February 26, 1980.

Table 160.-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1981

[The Department of Hawaiian Home Lands administers land set aside for the benefit of qualified native Hawaiians, who receive homestead leases and financial assistance from the Department.]

Island	Acreage		Lessees		Applicant list	
	Total	In home-stead use	Total awards	Resi-dential only	Total	Resi-den-tial
State total ..	189,724	26,062	3,034	2,618	7,289	6,360
Hawaii	110,575	17,504	726	579	1,769	1,132
Maui	29,005	17	89	89	511	475
Molokai	26,210	7,576	380	116	406	276
Oahu	5,245	419	1,649	1,647	4,081	4,081
Kauai	18,689	546	190	187	514	396

Source: Annual Report, Department of Hawaiian Home Lands, 1980-81, pp. 9, 10, and 14.

Section 7

RECREATION AND TOURISM

Statistics on tourism, recreation, sports, museums, the performing arts, pets and parks appear in this section. Information on recreational land use is given in Section 6; on transportation, in Section 18; on hotels, in Section 23.

Approximately 3,935,000 visitors stayed overnight or longer in Hawaii during 1981, compared with 1,747,000 in 1970 and only 297,000 in 1960. The average number present at any given time during 1981 was 96,000. Total visitor expenditures (exclusive of trans-Pacific fares) in 1981 amounted to $3.2 billion, compared with $705 million a decade earlier. The 1981 visitor total included 2.3 million from other States, 291,000 from Canada, and 690,000 from Japan. Expenditures per visitor day in 1980 averaged $71.24 for westbound visitors and $185 for the Japanese. Visitor-related spending in 1981 resulted in tax revenues of $446 million and generated 146,000 jobs.

Both visitors and residents have access to a wide range of recreational and cultural facilities. The State has seven National parks and similar areas, 71 State parks, 621 County parks, 57 golf courses, 252 public tennis courts, 2,044 small-boat moorages, 1,600 recognized surfing sites, and 24.4 miles of safe, sandy, accessible beach. Recreational and cultural facilities reporting more than a million annual visitors include four National or State parks, the National Memorial Cemetery of the Pacific, U.S.S. Arizona Memorial, Castle Park, and the Honolulu Zoo. Total visits to 44 museums, state monuments and similar attractions in 1981 numbered 11.4 million. About 231,000 Hawaii residents traveled to the Mainland in 1981 and half of them were absent more than 13.3 days. Fourteen theatrical groups on Oahu reported 1,128 performances of 254 productions for the 1980-1981 season, with a combined audience of 831,000. During the same period, the Honolulu Symphony Orchestra gave 107 concerts, with a total attendance of 156,000. Professional baseball drew 139,000 fans in 1982, and during the 1980-1981 school year, attendance at UH-Manoa varsity baseball, basketball and football home games exceeded 478,000.

Information on recreation and tourism is issued periodically by the Hawaii Visitors Bureau, the State Parks Division of the Department of Land and Natural Resources, the U.S. National Park Service, U.S. Passport Office, County park and recreation departments, and other organizations. A compilation of statistics on recreational facilities and behavior was issued by the Hawaii State Department of Land and Natural Resources in 1980 in its State Recreation Plan, Technical Reference Document. Long-term trends are summarized in Historical Statistics of Hawaii, Section 11. National statistics are given in Section 8 of Statistical Abstract of the United States: 1981.

Table 161.-- MODE AND DIRECTION OF TRAVEL OF PASSENGERS ARRIVING IN HAWAII: 1970 TO 1981

Year	All arriving passengers	Mode of travel		Direction of travel	
		Air	Surface	Westbound	Eastbound or northbound
1970	2,219,559	2,174,303	45,256	1,734,560	484,999
1971	2,500,462	2,455,147	45,315	1,903,130	597,332
1972	3,053,557	3,013,488	40,069	2,308,712	744,845
1973	3,624,667	3,598,312	26,355	2,696,415	928,252
1974	3,882,957	3,861,208	21,749	2,802,465	1,080,492
1975	3,849,525	3,832,790	16,735	2,806,524	1,043,001
1976	4,340,442	4,324,029	16,413	3,205,779	1,134,663
1977	4,544,802	4,530,817	13,985	3,434,979	1,109,823
1978	4,784,561	4,776,977	7,584	3,664,351	1,120,210
1979	5,291,333	5,283,771	7,562	3,839,041	1,452,292
1980	5,380,383	5,380,383	-	3,861,059	1,519,324
1981	5,305,809	5,305,809	-	3,780,383	1,525,426

Source: Hawaii Visitors Bureau, 1981 Annual Research Report.

Table 162.-- RESIDENCE STATUS OF WESTBOUND PASSENGERS ARRIVING IN HAWAII: 1970 TO 1981

Year	All westbound passengers	Visitors destined to Hawaii	Visitors destined beyond Hawaii		Returning residents	Intended residents	Unclassified
			Overnight or longer	Transits			
1970	1,734,560	1,127,950	198,185	193,798	173,252	40,073	1,302
1971	1,903,130	1,207,898	222,457	268,001	162,967	41,562	245
1972	2,308,712	1,540,268	242,469	309,595	171,772	44,388	220
1973 ...	2,696,415	1,815,443	252,418	396,508	194,974	36,886	186
1974	2,802,465	1,899,632	284,988	426,507	154,154	37,007	177
1975	2,806,524	1,935,396	272,021	381,419	178,040	39,233	415
1976	3,205,779	2,245,252	306,349	426,666	186,684	40,690	138
1977	3,434,979	2,453,541	309,771	448,521	179,298	43,617	231
1978 1/ .	3,664,351	2,698,831	332,168	436,942	156,901	39,476	33
1979 1/ .	3,839,041	2,805,813	333,642	546,113	130,914	22,559	-
1980	3,861,059	2,718,863	327,269	603,206	197,799	13,922	-
1981	3,780,383	2,611,142	363,649	556,730	230,728	18,134	-

1/ Decline in returning and intended residents probably reflects increased nonresponse rates resulting from revised questionnaire format used from July 1978 to July 1979.

Source: Hawaii Visitors Bureau, 1981 Annual Research Report.

Table 163.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS: 1964 TO 1981

Year	Visitors staying overnight or longer			Average number present 1/		
	Total	West-bound 2/	Other	Total	West-bound 2/	Other
1964	563,925	460,290	103,635	16,037	14,901	1,136
1965	686,928	567,218	119,710	17,369	16,057	1,312
1966	835,456	686,886	148,570	20,918	19,271	1,647
1967	1,124,818	893,103	231,715	27,630	24,898	2,732
1968	1,314,571	1,015,844	298,727	32,335	28,784	3,551
1969	1,527,012	1,181,029	345,983	37,198	33,088	4,110
1970	1,746,970	1,326,135	420,835	36,943	32,028	4,915
1971	1,818,944	1,430,325	388,619	40,889	36,504	4,385
1972	2,244,377	1,782,737	461,640	50,143	45,098	5,045
1973	2,630,952	2,067,861	563,091	59,578	53,407	6,171
1974	2,786,489	2,184,620	601,869	63,535	56,939	6,596
1975	2,829,105	2,207,417	621,688	66,308	59,495	6,813
1976	3,220,151	2,551,601	668,550	75,532	68,225	7,307
1977	3,433,667	2,763,312	670,355	83,030	75,684	7,346
1978	3,670,309	3,030,999	639,310	92,034	85,028	7,006
1979	3,960,531	3,139,455	821,076	98,676	89,678	8,998
1980	3,934,504	3,046,132	888,372	96,497	86,788	9,709
1981	3,934,623	2,974,791	959,832	96,095	85,576	10,519

1/ Data for 1964-1979 have been revised from the corresponding figures in the 1980 edition, table 128.

2/ Arriving from the Mainland United States or Canada.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 164.-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII: 1978 TO 1981

[In thousands. Data for 1978-1980 revised from 1981 edition, table 148.]

Place of residence	1978	1979	1980	1981
Total	3,670.0	3,960.0	3,935.0	3,935.0
United States	2,457.0	2,560.0	2,456.0	2,314.0
Foreign	1,213.0	1,400.0	1,479.0	1,621.0
Asia	603.0	747.8	817.5	878.0
Japan	524.0	653.6	658.1	690.4
Other Asia	79.0	94.2	159.4	187.6
Canada	358.0	348.6	331.8	291.0
Europe	61.0	67.0	80.2	169.0
Germany	13.0	16.4	17.6	28.9
United Kingdom	27.0	29.6	46.9	96.2
Other Europe	21.0	21.0	15.7	43.9
Oceania and South Pacific	172.0	216.2	230.1	252.0
Australia	130.0	159.6	164.1	171.9
New Zealand	32.0	45.8	57.3	68.5
Other South Pacific	10.0	10.8	8.7	11.6
South America	17.0	16.9	14.9	28.0
Other foreign	2.0	3.5	4.5	3.0

Source: Hawaii Visitors Bureau, "Revised Estimates of Overnight and Longer Visitors to Hawaii by National Origin for 1978, 1979, 1980 and 1981" (table, March 1982).

Table 165.-- DESTINATION OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1981

Destination	Number of visitors
Visitors to and beyond Hawaii	3,531,521
Destined to Hawaii	2,611,142
Destined beyond Hawaii	920,379
Around the World	47,320
Australia	295,110
New Zealand	113,401
Other Pacific	46,538
Japan	250,979
Hong Kong	39,488
Philippines	17,559
Other Asia	109,984

Source: Hawaii Visitors Bureau, 1981 Annual Research Report.

Table 166.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS, BY COUNTIES: 1970 TO 1981

Year	Westbound visitor arrivals 1/			Average visitor census, including eastbound and northbound			
	Hawaii County	Kauai County	Maui County	City and Co. of Honolulu 2/	Hawaii County	Kauai County	Maui County
1970 ...	445,401	410,075	447,985	26,699	3,588	3,011	3,645
1971 ...	522,166	472,663	554,799	28,323	4,349	3,535	4,682
1972 ...	637,562	565,386	710,050	34,707	5,153	4,136	6,147
1973 ...	694,170	590,475	766,791	43,341	5,477	4,206	6,554
1974 ...	742,839	601,703	852,201	45,486	6,024	4,484	7,541
1975 ...	769,779	632,821	931,863	46,140	6,496	4,941	8,731
1976 ...	816,514	699,275	1,110,726	52,683	6,782	5,445	10,622
1977 ...	839,008	740,501	1,257,142	57,342	7,195	6,025	12,468
1978 ...	908,983	837,712	1,403,054	62,379	8,094	7,069	14,492
1979 ...	860,940	825,366	1,419,773	67,688	7,996	7,394	15,598
1980 ...	761,103	781,409	1,378,189	66,680	7,195	7,259	15,363
1981 ...	648,382	730,963	1,344,278	67,592	6,324	6,969	15,210

1/ Because many visitors visit more than one island, county data sum to total greater than the State total shown in another table. Data cover westbound visitors destined to or beyond Hawaii, and include one-day (non-overnight) Neighbor Island visits by these passengers. Not separately available for the City and County of Honolulu.

2/ Data for 1970-1979 are revisions.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 167.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1971 TO 1981

Year	Residence 1/ (percent)		Males per 1,000 females	Median age (years)	High status occupations 2/ (percent)	Persons per party
	Western states 7/	California				
1971	46.8	32.0	741	42.6	54.0	1.61
1972	42.5	27.7	801	44.7	58.9	1.71
1973	39.4	25.5	762	44.0	56.4	1.69
1974	38.2	24.4	788	44.1	59.3	1.72
1975	39.7	24.8	810	44.5	60.4	1.75
1976	37.9	24.0	787	44.8	58.4	1.75
1977	40.2	25.8	802	43.2	58.8	1.78
1978	41.3	26.0	810	42.9	59.8	1.81
1979	43.1	25.7	823	41.7	60.1	1.80
1980	47.1	30.6	829	41.3	62.0	1.79
1981	45.8	30.3	810	40.2	61.0	1.82

Year	Arriving June 1-Aug. 31 (percent)	Repeat visitors 3/ (percent)	Pleasure trip (percent)	Staying in hotel 4/ (percent)	Average intended stay 5/ (days)	Intending to visit Neighbor Islands 6/ (percent)
1971	30.8	36.4	76.0	84.9	11.0	60.6
1972	29.2	35.1	77.4	89.0	10.9	61.5
1973	30.2	34.3	78.3	89.3	10.7	58.8
1974	28.6	37.3	78.2	91.4	10.7	62.0
1975	28.6	39.7	76.4	91.7	10.8	66.0
1976	28.3	38.7	79.0	93.4	10.7	65.6
1977	27.3	41.1	78.6	89.8	10.9	66.8
1978	26.7	42.8	76.5	83.0	11.2	68.2
1979	27.0	44.1	76.7	74.4	11.2	68.5
1980	28.7	48.4	75.4	71.2	11.2	68.3
1981	28.7	47.1	77.7	70.1	11.3	67.0

1/ Base includes estimated number of visitors arriving directly from Canada and usually omitted from the Hawaii Visitors Bureau Basic Data Survey.

2/ Party heads only. Calculated as the number of professional, technical, business, managerial and official workers as a percent of all party heads responding to this question.

3/ Party heads only.

4/ Includes condominiums operating as hotels through June 1978 but excludes such facilities thereafter.

5/ Computed from total visitor days and total visitor arrivals for westbound visitors destined for Hawaii. These data differ somewhat from corresponding data in the source, because of different computation procedures.

6/ Base includes passengers who did not answer this question.

7/ Pacific and Mountain States.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 168.-- CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1981

Subject	Visitors to Hawaii	Visitors beyond Hawaii
All visitors	2,611,142	920,379
Age:		
Under 10 years	66,035	51,670
10 to 19 years	208,118	68,865
20 to 29 years	465,763	203,249
30 to 39 years	492,217	198,850
40 to 49 years	437,786	140,750
50 to 59 years	450,299	111,810
60 years and over	364,230	69,213
Age not reported	126,694	75,972
Sex:		
Male	1,168,436	506,948
Female	1,442,706	413,431
Intended length of stay:		
1 day 1/	238,778	556,730
2 days		35,599
3 days		83,766
4 to 6 days		166,072
7 to 12 days	1,578,129	61,912
13 to 18 days	601,530	16,300
19 to 24 days	107,807	
25 to 30 days	45,613	
31 to 60 days	36,833	
61 to 90 days	1,793	
91 to 365 days	659	
Residence: 2/		
Pacific	1,012,867	46,139
Alaska	20,640	839
California	785,202	35,368
Oregon	67,812	2,312
Washington	139,213	7,620
Mountain	174,082	9,068
West North Central	127,298	5,438
West South Central	197,809	12,176
East North Central	250,933	14,719
East South Central	41,522	2,847
New England	66,409	6,739
Middle Atlantic	197,580	20,366
South Atlantic	139,590	16,247
Guam, Puerto Rico, Virgin Isl.	151	6,233
Canada	251,056	34,663
Other foreign	130,290	740,524
Residence not reported	21,555	5,220

Continued on next page.

Table 168.-- CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1981 -- Con.

Subject	Visitors to Hawaii	Visitors beyond Hawaii
Purpose of trip:		
Pleasure	2,014,876	731,065
Business	66,894	45,891
Business and pleasure	316,920	74,463
Government and military	11,899	15,552
Visiting relatives	76,866	17,800
Attend school	2,228	908
Convention	95,881	6,372
Other	8,068	11,860
Purpose not reported	17,510	16,468
Traveler status:		
Organized tour group	589,519	223,994
Individual basis	1,899,515	657,658
Incentive	90,192	13,392
Government/military	11,897	15,557
No answer	20,019	9,778
Intended accommodations:		
Hotel or apartment-hotel	1,817,348	306,371
Condominium	481,450	28,642
Friend's or relative's home	243,608	19,770
Other accommodations	48,511	6,129
Intransits	-	556,730
Not reported	20,225	2,737
Visitor days (1,000)	29,440	2,493

1/ Includes visitors beyond Hawaii who were in transit and did not report their intended length of stay.

2/ Census divisions. For composition, see source, table 12.

Source: Hawaii Visitors Bureau, 1981 Annual Research Report.

Table 169.-- CHARACTERISTICS OF WESTBOUND VISITOR PARTY HEADS TO AND BEYOND HAWAII: 1981

Subject	Visitors to Hawaii	Visitors beyond Hawaii
All party heads	1,437,646	584,344
Occupation:		
Professional and technical	495,467	178,105
Business, managerial, official	367,839	183,525
Clerical, office, sales	143,638	45,427
Military service	13,902	11,910
Other employed	106,903	37,898
Military dependent	2,397	1,014
Retired	167,487	34,051
Student	67,260	49,391
Other non-employed	48,498	27,440
Not reported	24,255	15,580
Trips to Hawaii:		
First trip	712,340	294,581
Second trip	247,144	98,582
Third trip	117,294	37,295
Fourth trip and over	271,063	92,277
Not reported	89,805	61,609
Persons in party:		
1 person	292,259	235,538
2 persons	831,175	186,068
3 persons	119,267	45,829
4 persons	125,578	70,449
5 persons or more	69,367	46,460
Average size	1.82	1.58

Source: Hawaii Visitors Bureau, 1981 Annual Research Report, and records.

Table 170.-- FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF MAINLAND VISITORS TO HAWAII: 1978 TO 1981

Subject	1978	1979	1980	1981
Number of respondents in sample	5,310	5,353	5,180	4,984
Family income before taxes (percent) ..	100.0	100.0	100.0	100.0
Under $10,000	5.8	4.0	3.1	1.8
$10,000 to $14,999	10.8	10.0	7.2	5.6
$15,000 to $24,999	26.8	23.5	19.4	16.6
$25,000 to $34,999	25.6	26.2	24.1	22.2
$35,000 to $49,999	17.0	19.2	24.0	24.8
$50,000 and over	14.2	17.1	22.2	28.9
Median income (dollars)	27,600	29,800	33,400	37,300
Education: college graduates (percent)	52.5	53.6	54.5	57.6
Using travel agent (percent)	83.5	84.1	79.6	79.0
Arrangements for Neighbor Island trips made before arrival (percent)	86.6	86.2	87.8	86.4
Islands visited (percent):				
Oahu only	24.9	24.6	26.6	27.2
Hawaii	36.5	34.3	30.2	24.5
Maui	56.0	56.8	53.4	54.0
Kauai	37.7	35.9	34.6	33.0
Molokai	0.5	0.6	0.6	0.6
Hawaii compared with other vacation areas visited (percent)	100.0	100.0	100.0	100.0
Far superior	39.2	35.2	35.2	37.0
Above average	50.5	53.7	54.2	53.9
Average	9.4	9.9	9.4	8.3
Below average	0.8	1.1	1.0	0.7
Quite inferior	0.1	0.1	0.1	0.2

Source: Hawaii Visitors Bureau, Visitor Reaction Survey (annual summaries).

Table 171.-- MEETINGS AND CONVENTIONS: 1978 TO 1981

Year	No. of meetings held	Estimated attendance	Estimated guest rooms	Estimated revenue ($1,000)
1978	536	230,273	106,963	113,135
1979	574	178,753	88,481	94,049
1980 1/.........	546	230,891	104,045	141,544
1981	505	181,662	84,142	134,164

1/ Revised from 1981 edition, table 162.

Source: Hawaii Visitors Bureau, Meetings & Conventions Department.

Table 172.-- AVERAGE EXPENDITURE PER VISITOR DAY, FOR THE STATE AND OAHU: 1931-1932 TO 1980

[In dollars.]

Years surveyed	Westbound visitors		Visitors from Japan: Statewide
	Statewide	Oahu only	
1931-1932	(NA)	17.50	(NA)
1951	28.00	(NA)	(NA)
1960-1961	32.00	(NA)	(NA)
1965-1966	(NA)	37.23	(NA)
1974	46.20	46.75	123.00
1977	54.62	54.17	146.85
1980	71.24	69.24	185.00

NA Not available.

Source: Hawaii Visitors Bureau, 1980 Visitor Expenditure Survey (January 1982), p. 31.

Table 173.-- VISITOR EXPENDITURES, BY ORIGIN OF VISITOR AND TYPE OF EXPENDITURE: 1980

[Excludes transpacific travel costs.]

Item	Aggregate expenditures (millions of dollars)			Expenditures per visitor day (dollars)	
	All visitors	Non-Japanese	Japanese 1/	Non-Japanese	Japanese 1/
All items	2,874.8	2,347.6	527.2	71.24	185.00
Food and beverage	735.2	628.1	107.1	19.06	37.55
Restaurants 2/	...	436.3	...	13.24	35.89
Nightclubs	...	64.9	...	1.97	1.66
Dinner shows	...	54.1	...	1.64	...
Groceries	...	72.8	...	2.21	...
Entertainment	132.0	110.4	21.6	3.35	7.59
Attractions	...	74.5	...	2.26	...
Other	...	35.9	...	1.09	...
Transportation	324.4	254.7	69.7	7.73	24.46
Ground transportation 3/ ...	...	40.5	...	1.23	2.96
U-drive	...	100.8	...	3.06	...
Interisland travel	...	84.4	...	2.56	21.50
Sightseeing tours	...	29.0	...	0.88	...
Clothing	212.8	179.6	33.2	5.43	11.66
Gifts and souvenirs	391.7	201.4	190.3	6.11	66.78
Lodging	879.3	813.3	66.0	24.68	23.17
All other	156.9	117.6	39.3	3.57	13.79
Adjustment 4/	42.5	42.5	-	1.29	-

1/ Detail for sub-items not available in all cases.

2/ For Japanese visitors, refers to total expenditures for food.

3/ For Japanese visitors, refers to total transportation expenditures excluding interisland travel.

4/ Estimated amount of underreporting for listed categories.

Source: Hawaii Visitors Bureau, 1980 Visitor Expenditure Survey (January 1982), pp. 4, 34, and 37.

Table 174.-- ESTIMATED EXPENDITURES BY VISITORS TO HAWAII, BY COUNTIES: 1971 TO 1981

[In millions of dollars. Excludes expenditures by Hawaii residents.]

Year	State total	City and County of Honolulu 1/	Other counties 1/			
			Total	Hawaii	Kauai	Maui
1971	705	507	198.0	67.7	56.1	74.2
1972	840	609	231.0	77.0	61.9	92.1
1973	1,020	777	243.0	81.9	63.2	97.9
1974	1,225	928	297.5	99.3	73.9	124.3
1975	1,360	1,004	355.9	114.6	87.2	154.1
1976	1,640	1,213	427.2	126.8	101.8	198.6
1977	1,845	1,377	468.5	131.2	109.9	227.4
1978 2/ ...	2,146	1,569	577.0	152.9	137.9	286.9
1979 2/ ...	2,537	1,867	669.8	162.0	159.2	348.7
1980 2/....	2,875	2,134	741.3	164.5	181.2	395.6
1981 3/ ...	3,200	2,400	799.6	177.4	195.5	426.7

1/ Interisland air fares have been distributed on a prorata basis. Expenditures by eastbound visitors have been included with Oahu.

2/ Revised from Data Book 1981, table 159.

3/ Preliminary estimate.

Source: Hawaii Visitors Bureau, Neighbor Island Statistics (table, March 30, 1982).

Table 175.-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES: 1971 TO 1981

[In millions of dollars.]

Year	Total	Visitors	Airline and ship crews	Overseas airlines 1/
1971	815.3	705.0	8.0	102.3
1972	960.0	840.0	9.0	111.0
1973	1,156.0	1,020.0	8.0	128.0
1974	1,408.6	1,225.0	12.6	171.0
1975	1,559.4	1,360.0	8.4	191.0
1976	1,857.8	1,640.0	6.8	211.0
1977	2,093.8	1,845.0	7.8	241.0
1978	2,427.4	2,146.0	11.4	270.0
1979	2,949.8	2,537.0	13.7	399.1
1980	3,406.2	2,875.0	13.2	518.0
1981	3,790.0	3,200.0	14.0	576.0

1/ Includes payroll, fuel taxes, and landing fees.

Source: Hawaii State Department of Planning and Economic Development, The Economic Impact of Tourism in Hawaii (Hawaii Economic Research Reports, forthcoming), and unpublished preliminary 1981 estimates based on the DPED Input-Output Model.

Table 176.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1971 TO 1981

[In millions of dollars and thousands of jobs. Revised from 1981 Data Book, table 160.]

Year	Visitor-related expenditures	Total sales or output 1/	Household income	Tax revenues	Jobs 1/
1971	815.3	1,673.9	609.1	95.4	74.8
1972	960.0	1,962.8	714.6	111.3	84.8
1973	1,156.0	2,359.9	859.2	139.9	97.9
1974	1,408.6	2,797.8	1,019.1	165.3	106.2
1975	1,559.4	3,046.3	1,107.7	196.0	105.9
1976	1,857.8	3,602.5	1,308.2	234.2	118.7
1977	2,093.8	3,993.8	1,447.9	244.9	124.7
1978	2,427.4	4,661.5	1,689.6	288.3	134.9
1979	2,949.8	5,542.6	2,007.3	352.1	143.7
1980	3,406.2	6,314.2	2,287.0	404.0	146.4
1981	3,790.0	6,977.2	2,527.1	446.0	145.7

Footnote and source follow next table.

Table 177.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES, BY INDUSTRY: 1980 AND 1981

[In millions of dollars and thousands of jobs.]

Year and industry	Direct visitor-related expenditures 2/	Total sales or output 1/	Total household income	Jobs	
				Total 1/	Direct only
1980 3/					
All industries 4/	3,406.2	6,314.2	2,287.0	146.4	80.8
Agriculture	25.8	49.1	25.4	1.4	0.7
Textile and apparel mfg.	27.7	59.4	17.0	1.2	0.7
Other manufacturing	87.3	252.8	45.4	2.5	0.8
Air transportation	491.9	865.0	281.1	13.7	6.1
Other transportation	127.4	265.2	100.5	6.0	3.0
Wholesale trade 5/	75.4	147.5	68.4	3.8	1.8
Eating and drinking places ...	659.1	1,679.2	656.8	29.7	19.4
Other retail trade 5/	277.4	516.0	163.0	23.7	13.8
Hotel services and real estate	905.0	2,085.4	769.5	51.9	27.0
Other services	193.3	399.1	160.0	12.3	7.3
1981					
All industries 4/	3,790.0	6,977.2	2,527.1	145.7	80.5
Agriculture	28.7	54.3	28.1	1.4	0.7
Textile and apparel mfg.	30.8	65.6	18.8	1.2	0.7
Other manufacturing	97.1	279.3	50.2	2.5	0.8
Air transportation	547.3	955.8	310.6	13.5	6.0
Other transportation	141.8	293.0	111.1	6.0	3.0
Wholesale trade 5/	83.9	163.0	75.6	3.8	1.8
Eating and drinking places ...	73.3	1,855.5	725.8	29.5	19.3
Other retail trade 5/	308.7	570.2	180.1	23.7	13.8
Hotel services and real estate	1,007.0	2,304.4	850.3	51.9	27.0
Other services	215.1	441.0	176.8	12.3	7.3

1/ Direct, indirect, and induced.

2/ Direct expenditures by visitors, airline and ship crews, and overseas airlines.

3/ Revised from 1981 edition, table 161.

4/ Detail may not add to indicated total because of definitional differences.

5/ Expenditure figure refers to income earned, not value of sales.

Source: Hawaii State Department of Planning and Economic Development, The Economic Impact of Tourism in Hawaii (Hawaii Economic Research Reports, forthcoming), and unpublished preliminary 1981 estimates based on the DPED Input-Output Model.

Table 178.-- HAWAII VISITORS BUREAU INCOME AND EXPENDITURES: 1972 TO 1983

[In dollars.]

Year ending June 30	Income				Expenditures
	Total	State appropriations 1/	Private subscriptions	Other 2/	
1972	2,247,494	1,689,261	535,918	22,315	2,245,724
1973	2,280,231	1,687,908	568,817	23,506	2,243,808
1974	2,289,946	1,692,963	557,706	39,277	2,259,602
1975	2,272,313	1,687,696	554,424	30,193	2,291,405
1976	2,466,570	1,798,452	629,418	38,700	2,473,050
1977	2,743,622	1,912,238	663,289	168,095	2,743,610
1978	2,908,365	1,975,360	735,962	197,043	2,902,134
1979	3,071,748	2,062,036	790,033	219,679	3,003,599
1980	3,140,200	2,069,728	799,978	270,494	3,118,998
1981	3,337,771	2,052,727	941,542	343,502	3,285,624
1982	4,431,673	3,197,785	1,033,486	200,402	4,448,871
1983	(NA)	2,111,000	(NA)	(NA)	(NA)

NA Not available.

1/ Data for 1972-1982 are net after any refunds to the State.

2/ May include income from mainland promotional programs, literature sales, convention servicing, and interest.

Source: Hawaii Visitors Bureau, Financial Statements and Schedules (annual), and records.

Table 179.-- CHARACTERISTICS OF OUT-OF-STATE TRAVEL BY HAWAII RESIDENTS: 1979

[Data obtained from a telephone survey of 500 adults, 18 years old and over, living in regular housing units. Coverage excludes persons under 18 and all occupants of institutions and military barracks.]

Characteristics	Number
Total round-trips by adults for vacations outside Hawaii, 1979	355,000
Percent of all adults --	
Vacationing outside Hawaii in 1979	35.2
Last vacation outside Hawaii was before 1979	39.8
Never vacationed outside Hawaii	25.0
Percent of all households --	
Traveling outside Hawaii for any purpose in 1979	45.2
Traveling outside Hawaii for vacations in 1979	41.0
Percent of all adults vacationing in 1979 in -- 1/	
California	21.2
Nevada	12.0
Alaska	0.4
Pacific Northwest	3.8
Southwest States	1.0
Rocky Mountain States	2.0
Central States	3.8
Southern States	3.2
Eastern States	4.4
Canada	2.0
Mexico	0.8
Caribbean	0.4
South America	0.0
Pacific Islands	0.2
Australia/New Zealand	0.6
Japan	1.6
Philippines	1.4
China, Korea	0.8
Southeast Asia	0.6
Indian Subcontinent	0.2
Middle East	0.4
Africa	0.0
Europe	1.4

Continued on next page.

Table 179.-- CHARACTERISTICS OF OUT-OF-STATE TRAVEL BY HAWAII RESIDENTS: 1979 -- Con.

[Data obtained from a telephone survey of 500 adults, 18 years old and over, living in regular housing units. Coverage excludes persons under 18 and all occupants of institutions and military barracks.]

Characteristics	Number
Average size of vacation parties in 1979	2.08
Persons under 18 years of age	0.40
Persons 18 years old and over	1.68
Length of vacation trips in 1979 (nights): 2/	
Median	12.8
Mean	17.2
Average household expenditure per vacation trip in 1979 (dollars), all categories 3/	2,051
Airfare	732
Other transportation	116
Food and drink	309
Hotel or other lodging	163
All other expenses	510

1/ Respondents could name more than one destination per trip.

2/ Includes time spent for nonvacation purposes.

3/ Includes data for households unable to provide breakdowns by category; detail will thus fail to add exactly to indicated total.

Source: John M. Knox and Juanita C. Liu, Out-of-State Recreational Travel by Hawaii Residents (Hawaii State Department of Planning and Economic Development, April 1980), pp. viii, 13, 15, 24, 31, 40, and 46.

Table 180-- CHARACTERISTICS OF RESIDENTS RETURNING FROM THE MAINLAND: 1961 TO 1981

Year	Number returning	Oahu residents 1/ (percent)	Median age (years)	Males per 100 females	Persons per party
1961 2/ ...	41,450	86.0	32.9	125.9	1.35
1967	130,995	89.4	...	...	1.24
1972	171,772	87.5	...	...	1.36
1977	179,298	84.9	...	...	1.39
1979 3/ ...	130,914	85.0	36.7	103.2	1.40
1980	197,799	85.2	37.9	100.8	1.42
1981	230,728	83.8	37.3	101.6	1.44

Year	High-status occupations: 4/ percent of--		Days absent 5/		Average number absent 5/
	All party heads	Employed civilians	Median	Mean	
1961 2/ ...	44.9	72.2	23.7	49.6	5,200
1967	...	...	18.4	45.9	14,800
1972	...	...	13.8	25.3	11,900
1977	...	...	13.5	20.6	10,100
1979 3/ ...	50.9	75.6	11.7	18.1	6,500
1980	54.8	78.0	11.6	17.0	9,200
1981	54.5	78.7	13.3	17.3	10,900

1/ Data for Oahu include persons specifying military bases rather than island of residence.

2/ Year ended June 30.

3/ Data on number returning and average number absent appear to be greatly understated.

4/ Party heads reporting professional, technical, business, managerial, and official occupations.

5/ For persons absent 1 to 365 days.

Source: Hawaii State Department of Planning and Economic Development, *Out-of-State Travel by Hawaii Residents During 1981* (Statistical Report 155, May 15, 1982), table 2.

Table 181.-- NONPERMANENT HOUSEHOLDS AND RESIDENTS IN AND FROM HAWAII: APRIL 1, 1980

[Includes nonpermanent residents staying in housing units occupied entirely by persons with a usual place of residence elsewhere. Persons staying in the house of a permanent resident are not included, nor are persons staying in hotels, motels, or campgrounds.]

Subject	In Hawaii, away from home on April 1, 1980		From Hawaii, away from home on April 1, 1980	
	Non-permanent households	Persons in non-permanent households	Non-permanent households	Persons in non-permanent households
Total	2,534	6,126	387	727
State: 1/				
Hawaii	113	190	113	190
California	428	967	94	186
Washington	192	410	11	23
Other States	1,534	3,863	148	284
Outside U.S.	23	79	...	...
Not reported	244	617	21	44
Island: 2/				
Oahu	1,070	2,920	(NA)	(NA)
Other islands	1,464	3,206	(NA)	(NA)
Males per 100 females	...	101.5	...	(NA)
Median age (years)	...	32.4	...	(NA)
Persons per household	...	2.42	...	1.88

NA Not available.

1/ Data refer to State of usual residence for nonpermanent households and household members staying in Hawaii on April 1, 1980, and to State where staying on April 1, 1980 for nonpermanent households and household members whose usual State of residence was Hawaii.

2/ Island where staying on April 1, 1980 for nonpermanent households and household members.

Source: U.S. Bureau of the Census, 1980 Census of Population, Supplementary reports, PC80-S1-6, "Nonpermanent Residents by States and Selected Counties and Incorporated Places: 1980" (April 1982).

Table 182.-- PASSPORTS ISSUED, BY FIRST AREA DESTINATION: 1978 TO 1981

Passport category and first area destination	1978	1979	1980	1981
Issued by Honolulu Passport Agency 1/ ..	28,533	28,974	31,928	34,191
Issued to Hawaii residents, total 2/ ...	28,280	26,170	28,800	31,700
Europe	11,280	8,470	9,730	10,970
Mid East	330	260	430	510
Far East	9,980	9,580	10,190	10,980
North, Central, and South America	1,030	820	1,000	940
Africa	200	60	120	100
Australia and Oceania	5,460	6,980	7,320	8,200
World tour	-	-	10	-

1/ Includes passports issued to persons not residing in Hawaii.

2/ Includes passports issued by offices not in Hawaii.

Source: U.S. Department of State, Bureau of Consular Affairs, Summary of Passport Statistics (January 1981) and information supplied June 11, 1981 and October 12, 1982.

Table 183.-- HONOLULU SYMPHONY ORCHESTRA: 1974-1975 TO 1980-1981

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
1974-1975	80	135	198,000	1,423,911
1975-1976	80	128	224,000	1,654,510
1976-1977	80	136	200,000	1,654,050
1977-1978	75	109	194,474	1,980,720
1978-1979	75	118	192,413	2,398,020
1979-1980	75	122	186,135	2,189,172
1980-1981	80	107	155,622	2,211,082

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1980-1981 (Statistical Memorandum 82-2, April 27, 1982).

Table 184.-- PERFORMING ARTS, FOR OAHU: 1980-1981 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups	254	1,128	830,585
Backstage Theater 1/	2	24	2,000
Brigham Young Univ.--Hawaii Campus	5	7	3,000
Chaminade University of Honolulu	2	16	2,800
Hawaii Loa College	2	8	800
Hawaii Performing Arts Co.	12	160	12,301
Honolulu Community Theatre	8	109	50,970
Honolulu Dept. of Auditoriums, total	107	205	481,944
Ballets	3	9	24,222
Concerts	37	80	139,982
Operas	4	10	19,489
Rock shows	19	38	158,716
Other dramatic and musical productions	44	68	139,535
Honolulu Theatre for Youth	6	290	126,247
Leeward Community College, total	8	170	67,225
Honolulu Theatre for Youth 2/	3	132	60,142
Other groups	5	38	6,783
U.S. Army Support Command Hawaii: 3/			
Plays and musicals	5	35	6,493
Concerts	38	38	72,090
Other productions	36	36	7,796
University of Hawaii at Manoa:			
On campus	18	143	51,801
Off campus	2	7	3,125
Windward Community College	1	4	175
Windward Performing Arts Theater 4/	1	2	260
Windward Theatre Guild	4	6	2,000

1/ Opened September 4, 1981 and closed October 4, 1981.
2/ Also included in HTY totals.
3/ USASCH Morale Support Activities Division, Music and Theatre Program.
4/ Data for calendar year 1980.

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1980-1981 (Statistical Memorandum 82-2, April 27, 1982).

Table 185.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1979 TO 1981

Island and cultural attraction	1979	1980	1981
State total	10,539,083	11,014,193	11,422,685
Oahu	8,125,219	8,489,121	8,848,792
Bernice P. Bishop Museum 1/	300,568	270,207	212,071
Exhibition halls	150,590	166,466	152,474
Planetarium	89,754	76,134	38,422
Falls of Clyde Maritime Museum	35,915	27,607	21,175
Heritage Theatre 2/	24,309	-	-
Castle Park 3/	-	700,000	1,260,000
Contemporary Arts Center of Hawaii	20,800	25,700	29,500
Damien Museum and Archives	2,641	2,885	2,980
Foster Botanic Garden	113,894	109,502	130,753
Fred Ohrt Museum 4/	744	3,519	3,438
Honolulu Academy of Arts	147,996	166,465	205,969
Iolani Palace State Monument 1/	65,000	67,000	53,000
Kahuku Sugar Mill 5/	240,802	103,000	-
Kamehameha V Post Office 1/	(NA)	(NA)	2,000
Mission Houses Museum 6/	23,850	22,820	23,800
Mormon Temple Grounds 7/	285,728	274,977	289,138
National Memorial Cemetery of the Pacific	2,586,678	2,594,934	2,605,818
Pacific Submarine Museum	35,998	53,903	60,287
Paradise Park	335,000	300,000	310,000
Polynesian Cultural Center	1,100,000	986,000	892,000
Puu O Mahuka State Monument 1/	(NA)	(NA)	2,000
Queen Emma Summer Palace	19,444	17,562	15,556
Royal Mausoleum State Monument 1/	88,000	86,000	45,000
Sea Life Park 8/	650,000	624,188	566,427
Tennant Art Foundation Gallery	(NA)	(NA)	2,500-3,000
Tropic Lightning Historical Center 9/	13,000	3,645	3,800
Ulu Po Heiau State Monument 1/	(NA)	(NA)	1,000
U.S. Army Museum, Ft. DeRussy	134,018	150,161	133,067
U.S.S. Arizona Memorial 10/	1,237,759	1,205,677	1,270,171
By Navy boats	728,224	761,009	891,313
By civilian boats	509,535	444,668	378,858
Wahiawa Botanic Garden	60,337	53,304	54,574
Waikiki Aquarium	257,951	246,707	267,830
Waimea Falls Park	405,011	420,965	405,863
Hawaii	1,917,926	1,995,208	2,004,694
Hulihee Palace	14,154	20,105	18,512
Kamuela Museum	18,739	(NA)	(NA)
Kilauea Visitor Center 11/	1,813,000	1,894,000	1,895,000
Lapakahi State Park 1/	40,000	52,000	55,000
Lyman House Memorial Museum	32,033	25,103	22,182
Mookini Heiau 1/	(NA)	4,000	14,000

Continued on next page.

Table 185.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1979 TO 1981 -- Con.

Island and cultural attraction	1979	1980	1981
Maui	86,259	107,177	127,646
Baldwin Home Museum	34,875	30,575	32,311
Brig *Carthaginian* 12/	-	32,204	45,833
Hale Hoikeike	7,384	7,398	7,502
Halekii-Pihana State Monument 1/	44,000	37,000	42,000
Kauai	398,761	412,264	433,053
Grove Farm Homestead 13/	(NA)	900	4,237
Hanalei Museum	6,500	7,000	3,800
Kauai Museum 14/	24,084	27,642	27,602
Kokee Natural History Museum	94,577	84,397	61,920
Russian Fort State Monument 1/	267,000	287,000	329,000
Waioli Mission House Museum	6,600	5,325	6,494
Molokai	10,918	10,423	8,500
Kalaupapa Settlement	10,918	10,423	8,500

NA Not available.
1/ Years ended June 30.
2/ Closed June 30, 1979.
3/ Opened end of June 1980.
4/ Opened August 1979. Closed Sept.-Dec. 1981 for renovation.
5/ Closed December 31, 1980.
6/ 1980 figure is for year ended September 30; 1981 figure, for year ended June 30.
7/ Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitors' Center. The 1979 figure has been revised from the 1980 edition, table 150.
8/ Years beginning March 1.
9/ Figure for 1979 is a rough estimate and may not be comparable to 1980.
10/ All persons visiting either the Memorial or the Visitor Center, including all non-landing tour boat passengers. The number visiting both the Memorial and Visitor Center and using the Navy ferry was 851,320.
11/ Located in Hawaii Volcanoes National Park. The attendance shown for the Visitor Center is an estimate based on 80 percent of the National Park total. Data for 1979 and 1980 have been revised.
12/ Reopened April 1980, after 8-year restoration.
13/ Opened October 1, 1980.
14/ Years ended September 30.

Source: Hawaii State Department of Planning and Economic Development, *Attendance at Museums and Other Cultural Attractions, 1981* (Statistical Memorandum 82-3, May 14, 1982).

Table 186.-- MUSEUMS, ART GALLERIES, BOTANICAL, ZOOLOGICAL GARDENS: 1977

[Data limited to tax-exempt establishments with payroll.]

Subject	Total	Commercial	Noncommercial
Number of establishments	24	4	20
Revenue, total ($1,000)	5,536	477	5,059
Admissions	378	6	372
Govt. or private contributions	2,927	-	2,927
All other sources	2,231	471	1,760
Expenses, total ($1,000)	5,808	486	5,322

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-9, Miscellaneous Subjects (June 1981), table 19.

Table 187.-- ZOOS: 1980 AND 1981

Zoo	Animal and bird inventory 1/				Attendance	
	Species		Individuals			
	1980	1981	1980	1981	1980	1981
Coco Palms (Kauai)	6	6	33	46	5,000	6,043
Honolulu Zoo	381	361	1,729	1,602	1,300,000	1,054,000
Maui Zoological & Botanical Gardens	38	43	121	144	80,000	75,000- 80,000
Panaewa Rainforest Zoo (Hilo)	50	53	149	145	32,353	32,285

1/ As of December 31.

Source: Data obtained by Hawaii State Department of Planning and Economic Development from Coco Palms Resort Hotel and the departments of parks and recreation of the City and County of Honolulu and Counties of Hawaii and Maui.

Table 188.-- NATIONAL PARKS: 1970 TO 1981

Year and area	Areas, Dec. 31	Acreage, Dec. 31			Visits
		Total	Federal	Non-Federal	
1970 1/	3	257,181	232,038	25,042	1,233,226
1971 1/	3	257,181	228,707	(NA)	1,478,849
1972 1/	4	257,281	238,401	18,718	2,046,081
1973	4	257,219	238,435	18,784	2,025,593
1974	4	247,910	232,007	15,903	2,298,676
1975	4	247,910	237,732	10,178	2,559,429
1976	4	247,910	237,732	10,178	2,895,840
1977	4	247,910	237,732	10,178	2,932,555
1978	5	249,210	237,732	11,478	3,572,504
1979	5	249,210	238,000	11,210	3,384,343
1980	6	249,224	238,014	11,210	3,479,797
1981	7	265,881	246,788	19,093	4,225,217
AREAS: 1981					
Hawaii Volcanoes National Park	...	224,731	219,082	5,649	2,368,907
Haleakala National Park ...	...	28,655	27,456	1,199	644,661
Pu'uhonua o Hōnaunau National Historical Park	...	181	181	-	335,441
Puukohola Heiau National Historical Site	...	100	34	66	24,888
Kaloko-Honokohau National Historical Park	...	1,300	-	1,300	-
U.S.S. Arizona Memorial ...	...	12	12	-	851,320
Kalaupapa National Historical Park 2/	...	10,902	23	10,879	-

NA Not available.

1/ Federal and non-Federal acreage data exclude Puukohola Heiau and are not consistent with the total acreage, which refers to total area authorized as of these dates.

2/ Acreage total includes 2,000 acres of offshore waters.

Source: U.S. Department of the Interior, National Park Service, Pacific Area Office, records.

Table 189.-- STATE PARKS: 1971 TO 1981

Year, island, or park	Number of areas, June 30	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
		Total	Developed	
1971	44	15,983	487.7	13,007
1972	46	16,000	543.1	9,798
1973	46	16,108	523.7	13,271
1974	53	16,629	533.9	12,907
1975	53	18,181	578.9	12,124
1976	55	18,577	606.6	14,305
1977	58	20,151	681.8	18,864
1978	64	20,295	706.8	15,966
1979	65	20,625	880.0	17,911
1980	66	20,637	916.7	17,169
1981	71	20,836	937.8	15,062
ISLANDS: 1981				
Hawaii	18	2,321.2	310.3	3,329
Maui	11	199.9	50.5	2,780
Molokai	1	233.7	10.0	183
Oahu	29	8,723.3	366.8	939
Kauai	12	9,397.8	200.2	7,831
MAJOR PARKS: 1981 1/				
Wailua River State Park 2/	...	1,061.7	16.7	2,937
Waimea Canyon State Park	...	1,866.4	10.0	1,179
Kokee State Park	...	4,640.0	55.0	1,055
Hana Road Waysides	...	14.3	4.0	991
Olowalu-Kaanapali Wayside	...	14.0	14.0	969
Fern Grotto 3/	...	14.6	14.6	814
Hapuna Beach State Park ..	...	300.0	26.8	807
Lydgate 3/	...	36.7	36.7	781
Wailuku River Rec. Area ..	...	81.0	24.9	631
Akaka Falls State Park ...	...	65.4	6.0	590
Iao Valley State Park	...	5.9	5.9	549
Kahana Valley State Park .	...	5,260.0	20.0	8

1/ Parks with more than 500,000 recreation visits during the year, or with more than 1,500 total acres.

2/ Excluding Fern Grotto and Lydgate sections.

3/ Part of Wailua River State Park.

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, Outdoor Recreation and Historic Sites, unpublished tables.

Table 190.-- COUNTY PARKS: 1980 AND 1981

[As of December 31.]

County	Number of areas		Acreage	
	1980	1981	1980	1981
State total 1/	617	621	8,247	8,247
Hawaii	133	134	1,440	1,445
Maui	89	91	944	952
Honolulu 1/	338	338	5,339	5,344
Kauai	57	58	524	506

1/ 1980 acreage revised from 1981 edition, table 173.

Source: Information obtained by the Hawaii State Department of Planning and Economic Development from the City and County of Honolulu Department of Parks and Recreation, Hawaii County Department of Parks and Recreation, Kauai County Department of Public Works, and Maui County Department of Parks and Recreation.

Table 191.-- ATTENDANCE AND WATER SAFETY AT BEACH PARKS, FOR THE CITY AND COUNTY OF HONOLULU: 1980 AND 1981

[Years ended June 30.]

Subject	1980	1981
Attendance, total 1/	18,939	14,715
Ala Moana	1,608	1,696
Waikiki	12,731	6,050
Hanauma Bay	1,327	2,425
Sandy	549	825
Kailua	381	528
Waimea Bay	650	848
Makaha	345	530
Rescues	745	907
First aid: Minor	17,989	23,204
Major	375	538
Surfing accidents	325	64
Resuscitation	34	22
Lost children	194	51
Ambulance assistance	82	75
Police assistance	266	15
Helicopter assistance	2	8
Near drownings	6	11
Dead on arrival	-	1

1/ In thousands. Shown separately for beach parks over 500,000 in 1981; for other beach parks, see source. Based on headcounts taken at approximately two-hour intervals by lifeguards over an 8-hour work day. Data for some of the smaller beach parks are limited to weekends or the summer months.

Source: City and County of Honolulu, Department of Parks and Recreation, Water Safety Division Statistical Activities Report (annual).

Table 192.-- COUNTY GOLF COURSES AND CAMPING PERMITS, FOR OAHU: 1978 TO 1981

Calendar year	Public golf courses			Camping permits issued 1/
	Courses	Holes	Rounds played	
1978	4	63	398,337	9,569
1979	4	63	351,204	8,414
1980	4	63	424,426	6,744
1981	4	63	461,543	12,135

1/ By the City and County of Honolulu.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 193.-- FISHING AND HUNTING LICENSES ISSUED: 1976 TO 1981

[Years ended June 30.]

Year	Freshwater game fishing licenses	Hunting licenses
1976	8,574	12,754
1977	8,129	12,519
1978	8,804	11,925
1979	8,208	11,680
1980	7,815	11,905
1981	8,102	12,284

Source: Hawaii State Department of Land and Natural Resources, Report to the Governor (annual) and Division of Conservation and Resources Enforcement, records.

Table 194.-- RECREATION RESOURCES AND FACILITIES AND RELATED OPEN SPACE ACREAGE: 1975 AND 1980

Category	State totals		Counties: 1980			
	1975	1980	Honolulu	Hawaii	Kauai	Maui
Total acreage 1/	1,468,368	1,584,042	132,111	936,864	213,809	301,258
Recreation resources (acres):						
Park-related beach	285	366	195	16	99	56
Hunting areas	899,468	924,283	20,027	608,100	125,926	170,230
Recreation facilities:						
Improved acreage 1/	4,979	5,186	2,722	1,264	682	518
Active	2,410	2,559	1,362	575	376	246
Passive	2,019	2,198	1,091	614	282	211
Service	393	434	268	75	30	61
Linear facilities (miles):						
Trails	424	827	109	429	155	170
Bikeways	-	41	38	-	3	-

1/ Detail does not always add to indicated totals, for unstated reasons.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), p. 57.

Table 195.-- RECREATIONAL FACILITIES AND RESOURCES, BY COUNTIES: 1980

Type of facility or site	State total	Honolulu	Hawaii	Kauai	Maui
Active parks (sites)	428	272	65	38	53
Public	220	122	38	28	32
DOE and UH 1/	208	150	27	10	21
Swimming pools	52	35	7	5	5
Sport fields	481	302	69	61	49
Public	349	220	42	54	33
DOE and UH 1/	132	82	27	7	16
Sport courts	792	622	67	47	56
Public	555	473	19	35	28
DOE and UH 1/	237	149	48	12	28
Tennis courts	494	304	69	71	50
Public	258	178	38	19	23
Private	87	21	13	42	11
DOE and UH 1/	149	105	18	10	16
Golf courses (sites)	40	17	9	4	10
Public	8	5	1	1	1
Private	32	12	8	3	9
Boat lanes	66	25	19	13	9
Boat moorages	2,385	1,820	297	91	177
Sandy beaches (sites) ...	221	103	29	40	49
Improved park	84	43	8	18	15
Unimproved	137	60	21	22	34
Picnicking sites	170	65	42	26	37
Beach	113	47	29	19	18
Inland	57	18	13	7	19
Camping sites	64	21	19	13	11
Beach	51	20	14	12	5
Inland	13	1	5	1	6

1/ Hawaii State Department of Education and University of Hawaii.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), pp. 67, 69, 71, 73, and 75.

Table 196.-- PEAK-DAY RESIDENT AND VISITOR PARTICIPATION IN SPECIFIED RECREATION ACTIVITIES: 1980

[Based on a survey conducted in the late summer of 1978 and projections of resident population and average visitor census for 1980. The data refer to the day of the week on which the greatest combined participation by residents and visitors occurs for the specified activity.]

Activity	Activity occasions 1/		Percent of State total accounted for by --	
	State total	Oahu only	Residents	Visitors
All activities	986,430	737,417	83	17
Walking	240,434	191,201	78	22
Jogging	73,068	62,181	96	5
Hiking	15,709	10,413	79	21
Camping	20,809	16,130	96	5
Group camping	3,804	913	89	11
Picnicking	84,716	58,447	94	6
Hunting	1,502	234	90	10
Golf	15,681	11,714	79	21
Swim or sunbathing	171,525	123,616	75	25
Diving	20,875	13,483	77	23
Surfing	22,608	15,587	81	19
Boating	18,563	13,547	73	27
Canoe paddling	3,233	1,786	87	13
Fishing	24,875	17,322	96	4
Field games	32,404	27,065	98	2
Court games	19,070	15,891	100	0
Playground equipment	14,928	11,175	100	1
Tennis	18,106	12,749	85	15
Outdoor events	19,071	15,562	76	24
Bicycling	74,909	54,403	100	0
Motorcycling	8,722	6,719	83	17
Other activities	22,606	18,008	98	3
Sightseeing	59,212	39,271	47	53

1/ An activity occasion is a peak-day participation in that activity by a member of a resident household or visitor party.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), pp. 80 and 83.

Table 197.-- GOLF COURSES, BY ISLANDS: 1981

Island and type of operation	Number of courses				Number of holes
	Total	9-hole	18-hole	27-hole	
State total ..	57	12	44	1	927
Hawaii	11	2	9	-	180
Public 1/	4	2	2	-	54
Municipal	1	-	1	-	18
Resort	6	-	6	-	108
Maui	10	2	8	-	162
Private	1	1	-	-	9
Public 1/	1	1	-	-	9
Municipal	1	-	1	-	18
Resort	7	-	7	-	126
Lanai	1	1	-	-	9
Public 1/	1	1	-	-	9
Molokai	2	1	1	-	27
Public 1/	1	1	-	-	9
Resort	1	-	1	-	18
Oahu	28	5	23	-	459
Private	4	-	4	-	72
Public 1/	8	1	7	-	135
Municipal	4	1	3	-	63
Military	9	3	6	-	135
Resort	3	-	3	-	54
Kauai	5	1	3	1	90
Public 1/	1	1	-	-	9
Municipal	1	-	1	-	18
Resort 2/	3	-	2	1	63

1/ Privately owned courses open to the public on daily-fee basis.

2/ Includes one 18-hole course under construction in 1981.

Source: Thomas Kemper Hitch and Mary Ishii Kuramoto, Waialae Country Club, The First Half Century (1981), pp. 185-188.

Table 198.-- WATER RECREATION FACILITIES AND RESOURCES, BY ISLANDS: 1981

Island	Small craft mooring facilities capacity 1/		Miles of sandy shoreline 2/		Number of surfing sites 3/
	Catwalks and piers	Other mooring areas	Total	Primary 4/	
Six major islands .	1,254	790	184.9	24.4	1,600
Hawaii	26	303	19.4	1.2	185
Maui	41	146	32.6	7.9	212
Lanai	24	-	18.2	-	99
Molokai	3	29	23.2	-	180
Oahu	1,102	275	50.3	12.5	594
Kauai	58	37	41.2	2.8	330

1/ As of December 31, 1981.

2/ Surveyed in 1962.

3/ Surveyed in 1971. A surfing site is defined as "a specific wave-breaking zone caused by a shoal and having sufficient consistency to be identified as a surfable riding area, either seasonally or in a combination of seasons, e.g., Queen's Surf, Waikiki."

4/ Safe, clean, accessible, and generally suitable for swimming.

Source: Hawaii State Department of Transportation, Harbors Division, Small Craft Mooring Facilities Utilization Report (monthly); Hawaii State Department of Planning and Economic Development, Hawaii's Shoreline (1965), p. 7; Surfing Education Association, The 1971 Statewide Surfing Site Survey, Vol. 1, p. 93.

Table 199.-- COUNTY TENNIS FACILITIES: 1980 AND 1981

Island	Locations		Courts	
	Feb. 1980	Dec. 31, 1981	Feb. 1980	Dec. 31, 1981
State total ...	80	81	242	252
Hawaii	21	21	45	45
Maui	11	10	33	32
Lanai	1	1	2	1
Molokai	-	1	-	2
Oahu	39	39	146	150
Kauai	8	9	16	22
Niihau	-	-	-	-

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the county departments of parks and recreation.

Table 200.-- HONOLULU MARATHON FINISHERS AND WINNING TIMES: 1973 TO 1981

Year	Number of finishers	Winning time (hr., min., sec.)	
		Men	Women
1973	151	2:27:34	3:25:31
1974	297	2:23:02	3:01:59
1975	706	2:17:24	2:49:24
1976	1,443	2:20:37	2:44:44
1977	2,900	2:18:38	2:48:08
1978	5,587	2:17:05	2:43:10
1979	6,512	2:16:13	2:40:07
1980	6,630	2:16:55	2:35:26
1981	7,170	2:16:54	2:33:35

Source: Honolulu Marathon Association, records.

Table 201.-- PROFESSIONAL BASEBALL (HAWAII ISLANDERS): 1980 TO 1982

Season	Games					Home openings	
	Number played	Won	Lost	Percent won	Ahead or behind	Number	Attendance
1980:							
First half	65	40	25	.615	+4	37	66,357
Second half	76	36	40	.474	-8	27	71,420
Div. playoffs ...	3	2	1	.667	...	3	10,553
Champ. playoffs .	5	2	3	.400	...	-	-
1981:							
First half	66	35	31	.530	+ 1 1/2	37	72,105
Second half	71	37	34	.521	- 6 1/2	28	85,973
Div. playoffs ...	3	1	2	.333	...	3	16,294
1982:							
First half	71	36	35	.507	-10	31	52,355
Second half	73	37	36	.507	-3	34	86,522

Source: Ferd Borsch, Islanders scorer, records.

Table 202.-- PUBLIC HIGH SCHOOL SPORTS: 1980-1981 SEASON

Sport	Players	Games 1/	Attendance	Expenditure 1/ (dollars)
Baseball	Boys	328	61,275	114,658
Basketball ..	Boys and girls	810	89,634	294,284
Football	Boys	256	244,680	336,763

1/ Junior varsity and varsity games, based on published schedules of sports from all leagues. Data exclude pre-season and post-season games.

2/ Data on expenditures and encumbrances reflect both general and trust funds.

Source: Hawaii State Department of Education, Office of Instructional Services, Athletics Program, letter dated October 15, 1981.

Table 203.-- VARSITY SPORTS AT THE UNIVERSITY OF HAWAII-MANOA: 1978-1979 TO 1981-1982

[Data limited to games played against four-year collegiate teams.]

Sport and school year	All games			Home games	
	Won	Lost	Tied	Home dates	Attendance
Baseball: 1/					
1978-1979	69	15	-	45	81,162
1979-1980	60	18	-	40	32,931
1980-1981	50	16	-	38	40,972
1981-1982	59	17	-	42	63,846
Basketball: 2/					
1978-1979	10	17	-	20	71,902
1979-1980	13	14	-	18	64,019
1980-1981	14	13	-	18	83,785
1981-1982	17	10	-	19	73,869
Football:					
1978-1979	6	5	-	9	327,295
1979-1980	6	5	-	9	334,364
1980-1981	8	3	-	8	342,862
1981-1982	9	2	-	8	340,261

1/ Including the Rainbow Easter Tournament and post-season play.
2/ Including the Rainbow Classic.
Source: University of Hawaii, Office of Intercollegiate Athletics, Sports Information Office, records.

Table 204.-- DOG LICENSES ISSUED, BY ISLANDS: 1980 AND 1981

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu 1/	Kauai
1980	61,115	6,069	4,820	122	398	48,407	1,299
1981	46,706	5,532	4,349	140	393	35,081	1,211

1/ Effective July 1, 1980, new licenses became effective for two years rather than one.
Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Section 8

GOVERNMENT FINANCES AND EMPLOYMENT

This section presents statistics relating to the revenues, expenditures, debt, and civilian employment of Federal, State and County governments in Hawaii.

Local government is vested in one combined city-county (Honolulu, consisting of the Island of Oahu and several outlying islets), three non-metropolitan counties (Hawaii, Kauai, and Maui), and one area (Kalawao County) administered by the State Department of Health. Separate municipal governments do not exist.

Tax collections by Federal, State and County governments in fiscal 1981 reached $3,246 million, almost triple the level reported ten years earlier. The 1981 total included $1.8 billion in U.S. taxes, $1.4 billion in State taxes, and $48 million in County taxes, licenses and fees. Individual income taxes accounted for 87 percent of Federal collections and 24 percent of State collections in Hawaii in 1981. State revenue receipts totaled $1,905 million, chiefly from the General Excise and Use Tax ($549 million) and Federal grants-in-aid ($390 million). The largest expenditure item in the State accounts for 1981 was education, with $581 million (out of $1,940 million) going to the University of Hawaii and public schools and libraries. The counties, in contrast, depended largely on the real property tax (which until mid-1981 was still assessed and collected by the State) and grants-in-aid for their revenues, and reported police and fire protection as their largest single expenditure item. Assessed valuation of the State tripled between 1971 and 1981, reaching $25.4 billion by the end of the period; of this total, $7.4 billion was exempt from taxation. Public bonded debt outstanding at the end of 1981 exceeded $2.2 billion.

Total government employment in 1981 averaged 89,000, about 14 percent over the 1971 average. The 1981 total included 30,000 Federal workers, 45,000 persons employed by the State, and 13,000 persons on County payrolls. State civil service employees as of mid-1981 numbered 18,000.

Important sources for statistics on government in Hawaii include the U.S. Census of Governments and various annual publications of the Bureau of the Census, reports of the U.S. Treasury Department, Hawaii State Departments of Accounting and General Services, Budget and Finance, and Taxation, and the County auditors and finance directors, and an annual compilation issued by the Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics. Data extending back to the middle of the 19th century are summarized in Historical Statistics of Hawaii, Section 25. Comparable Mainland statistics appear in the Statistical Abstract of the United States: 1981, Sections 9 and 10.

Table 205.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS: 1971 TO 1981

Year	All levels of government			Federal 1/ ($1,000)	State 2/ ($1,000)	County 2/ ($1,000)
	Amount ($1,000)	Per capita 3/ (dollars)	Percent of personal income 4/			
1971	1,105,657	1,380	28.9	608,051	480,690	16,916
1972	1,162,700	1,404	27.8	632,583	512,047	18,070
1973	1,327,151	1,560	28.5	735,359	571,689	20,104
1974	1,512,414	1,744	28.5	840,089	650,855	21,470
1975	1,852,804	2,096	32.2	1,087,520	743,926	21,358
1976	1,821,934	2,020	29.3	945,899	850,639	25,396
1977	2,038,328	2,225	29.3	1,106,687	905,959	25,682
1978	2,228,779	2,399	29.0	1,208,480	986,182	34,117
1979	2,620,195	2,758	30.3	1,455,226	1,127,677	37,292
1980	2,966,128	3,064	30.4	1,670,459	1,255,622	40,047
1981	3,245,507	3,308	29.8	1,826,363	1,371,490	47,655

1/ Fiscal years ended June 30 through 1976 and September 30 thereafter.
2/ Fiscal years ended June 30.
3/ Based on estimated total resident population, June 30.
4/ Based on personal income estimates for calendar years.

Source: Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics (annual). Per capita collections and percentages calculated by DPED.

Table 206.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCES: 1971 TO 1981

[In thousands of dollars.]

Source	1971 1/	1980 2/	1981 2/
Total, all levels	1,105,657	2,966,128	3,245,507
Federal collections	608,051	1,670,459	1,826,363
Indiv. income and employment	507,062	1,412,330	1,594,288
Corp. income and excess profits ..	74,022	213,216	182,667
Other sources	26,967	44,913	49,408
State collections	480,690	1,255,622	1,371,490
General excise and use	178,030	498,670	549,277
Fuel	27,260	51,053	53,117
Liquor	8,385	12,948	6,964
Public service companies	13,620	32,458	50,150
Corporate income 3/	12,876	42,424	46,955
Indiv. income, net income 4/	116,233	311,404	334,570
Real property	87,893	186,218	217,262
Unemployment compensation	14,018	67,536	58,755
Other sources	22,377	52,912	54,440
County collections	16,916	40,047	47,655
Motor vehicle weight 5/	10,451	22,727	23,318
Other sources	6,465	17,321	24,337

1/ Fiscal year ended June 30.

2/ Fiscal year ended September 30 for federal collections and June 30 for other.

3/ Includes payments of estimated taxes less refunds.

4/ Includes withheld and estimated taxes less refunds, and delinquent compensation tax (repealed January 1, 1958).

5/ Includes State motor vehicle weight tax for 1980 and 1981.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1982, pp. 20 and 36.

Table 207.-- ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY ON OAHU: 1978 AND 1980

[Based on a gross family income equivalent to four times the per capita personal income estimated for Hawaii.]

Tax category 1/	1978 (dollars)	1980 (dollars)	Percent increase
Total tax burden 2/	12,308	15,233	23.8
Direct taxes	8,921	12,555	40.7
Real property	529	659	24.6
Automobile	219	233	6.4
General excise (sales)	463	529	14.3
Specific excise	52	120	130.8
State income	1,758	2,209	25.7
Federal income	4,206	6,684	58.9
Social Security	1,694	2,121	25.2
Employment taxes paid by employer	3,596	4,755	32.2
Social Security	1,694	2,121	25.2
Unemployment Compensation	770	532	-30.9
Workers' Compensation	1,005	1,940	93.0
Temporary Disability	127	162	27.6
Assumed gross family income	30,708	36,892	20.1
Net income	18,400	21,659	17.7
Consumer price index (1967=100)	184.1	228.5	24.1

1/ For underlying assumptions, see source.

2/ Based on four times the per capita overall tax burden, including corporate income taxes, and not on the sum of the direct and employment taxes listed in this table.

Source: Tax Foundation of Hawaii, The Tax Burden of the Arnie Aloha Family (April 1979 and May 1981).

Table 208.-- STATE REVENUE RECEIPTS: 1980 AND 1981

[In thousands of dollars. Years ended June 30. Due to reclassification of funds, amounts not exactly comparable to prior years. Excludes certain Trust and Agency funds to avoid duplication.]

Source of revenues	1980: all funds	1981		
		All funds	General fund	Special funds
Total 1/	1,760,186	1,905,159	1,162,533	742,626
Tax revenues	1,061,453	1,143,324	1,041,881	101,444
General excise	498,670	549,277	549,277	-
Specific excises 2/	124,299	138,493	96,479	42,014
Individual income	311,404	334,419	334,419	-
Corporate income	42,424	46,955	46,955	-
Unemployment compensation	67,536	58,759	-	58,759
Other taxes, licenses, permits 3/	17,122	15,422	14,750	671
Fines, forfeits, and escheats	5,989	7,191	6,709	482
Federal grants-in-aid	374,405	389,855	9,060	380,795
Revenues from other agencies	1,745	1,435	894	541
Rents, royalties, land income	86,849	98,222	51,072	47,150
Earnings: general departments	97,798	110,396	35,365	75,031
Earnings: public service enterp.	76,784	76,706	-	76,706
Repayment debt costs: counties	151	146	146	-
Interest earned	657	-	-	-
Miscellaneous	54,355	77,883	17,405	60,478

1/ Excludes transfers and repayments except as shown.

2/ Includes public utilities, tobacco, liquor, insurance and fuel taxes.

3/ Includes franchise tax, inheritance and estate taxes, and conveyance tax.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1982, p. 19.

Table 209.-- STATE OPERATING EXPENDITURES, BY FUNCTION: 1971 TO 1981

[In thousands of dollars. For years ended June 30. Due to reclassification of funds, 1980 and 1981 data are not exactly comparable to prior years. Data include general and special fund expenditures; Unemployment Trust Fund treated as a special fund. Interfund transfers eliminated to avoid duplication.]

Functions	1971	1980	1981
Total	685,058	1,815,855	1,940,376
General government: Control	11,576	27,953	33,238
Staff	26,285	62,879	75,906
Public safety: Police and fire .	141	1,957	2,145
Other protection	23,440	46,448	52,367
Highways	14,946	32,457	41,127
Natural resources	19,608	20,623	15,226
Health and sanitation	10,939	39,586	46,645
Hospitals and institutions	39,941	86,524	79,069
Public welfare	65,683	253,411	297,813
Education: Higher	90,723	189,123	215,244
Public schools	160,896	305,618	346,100
Libraries and other .	7,982	17,324	19,628
Recreation	1,699	11,034	15,286
Utilities and other enterprises	26,112	45,485	41,252
Debt service 1/	34,508	148,847	164,241
Retirement and pension	24,356	64,447	76,253
Employees' health and hosp. insurance	6,804	13,651	18,006
Salary adjustments	2,518	-	-
Unemployment compensation	32,978	44,781	64,816
Grants-in-aid to counties	16,345	18,223	18,243
Urban redevelopment and housing	5,051	280,509	269,186
Miscellaneous	6,355	14,637	20,139
Cash capital improvements 2/ ...	56,174	90,338	28,445

1/ Debt service on revenue bonds reimbursable from highway funds included in Highways; from airport and harbor funds under Utilities; from Sand Island receipts, Land Revolving and Veterans' Home Loan funds under Miscellaneous.

2/ Special funds accounted for $37,001,977 in 1971, $90,274,894 in 1980, and $13,939,281 in 1981 including $13,781,119 in depreciation reported for enterprise fund assets.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1982, p. 45.

Table 210.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1971 TO 1981

[In thousands of dollars. For years ended June 30.]

Subject	1971	1980	1981
OPERATING REVENUES 1/			
Total	161,240	417,827	478,747
Real property taxes	87,929	186,209	217,257
Other taxes	21,566	39,736	45,910
Fees, licenses and permits	6,033	10,761	15,479
Departmental earnings 2/	9,514	37,830	46,881
State grants	20,131	23,508	24,585
Federal grants	12,365	108,046	105,416
Other sources	3,704	11,738	23,219
OPERATING EXPENDITURES 3/			
Total	160,862	408,682	456,179
General government	18,846	45,678	52,327
Police and fire	37,678	82,161	92,881
Other protection	7,052	13,127	15,166
Highways	14,001	21,656	26,366
Health and sanitation	12,470	29,617	36,286
Public welfare	110	4,022	5,728
Public schools	329	503	545
Recreation	11,676	27,334	33,916
Interest	8,251	15,269	14,419
Bond redemption	12,777	21,089	21,490
Pension and retirement	9,357	31,485	33,050
Economic and urban development 4/	8,677	28,968	28,057
Mass transit	1,744	24,094	26,692
Miscellaneous	3,880	19,620	25,200
Cash capital improvements	14,014	44,058	44,056

Footnotes and source follow next table.

Table 211.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1981

[In thousands of dollars. For year ended June 30.]

Subject	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES 1/				
Total	368,101	36,041	50,081	24,524
Real property taxes	166,301	16,662	24,798	9,496
Other taxes	35,475	3,309	4,763	2,362
Fees, licenses and permits	12,026	1,284	1,464	705
Departmental earnings 2/	33,368	5,443	3,667	4,403
State grants	8,847	5,621	6,625	3,492
Federal grants	90,783	2,988	7,985	3,660
Other sources	21,300	733	780	405
OPERATING EXPENDITURES 3/				
Total	338,915	36,632	50,074	30,557
General government	31,047	6,065	6,990	8,225
Police and fire	66,670	8,044	12,946	5,222
Other protection	10,383	1,057	3,016	709
Highways	15,787	3,575	5,048	1,955
Health and sanitation	29,282	3,741	2,424	837
Public welfare	-	2,400	1,277	2,051
Public schools	-	157	259	129
Recreation	23,711	3,024	4,153	3,029
Interest	10,374	708	2,534	803
Bond redemption	16,283	1,247	1,405	2,555
Pension and retirement	22,982	2,562	5,331	2,174
Economic and urban development 4/	28,057	-	-	-
Mass transit	25,822	-	871	-
Miscellaneous	19,270	2,108	1,375	2,446
Cash capital improvements	39,247	1,943	2,444	422

1/ Excludes loan, bond, revolving, and certain trust funds and Water Supply revenues.

2/ Includes rentals, interest, garbage collection charges and other earnings.

3/ Excludes certain revolving, bond, and Act 97, SLH 1965 fund expenditures and loan repayments.

4/ Includes expenditures from federal employment (CETA) and redevelopment grants.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1982, pp. 32, 33, 46, and 47.

Table 212.-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1980 AND 1981

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems.]

Source of revenue	Tax base		Tax collections	
	1980 1/	1981	1980 1/	1981
All sources	19,013,993	21,013,424	527,304	575,216
Sources taxed at 4%	12,379,864	13,459,282	495,195	538,371
Retailing	6,109,628	6,700,750	244,385	268,030
Services	1,743,003	1,809,913	69,720	72,396
Contracting	1,569,658	1,613,764	62,786	64,551
Theater, amusement, radio	121,562	129,501	4,862	5,180
Interest	174,790	205,989	6,992	8,240
Commissions	286,633	276,679	11,465	11,067
Hotel rentals	708,620	770,705	28,345	30,828
All other rentals	1,112,095	1,269,800	44,484	50,792
Use (4%)	261,877	436,335	10,475	17,453
All others	291,998	245,846	11,680	9,834
Sources taxed at other rates 2/	6,634,129	7,554,142	32,109	36,877
Insurance solicitors	303,264	255,321	455	383
Sugar processing	527,379	415,442	2,637	2,077
Pineapple canning	195,766	172,342	980	862
Producing	143,694	176,582	718	883
Manufacturing	626,004	630,732	3,130	3,154
Wholesaling 3/	2,986,877	3,528,763	14,934	17,644
Services (intermediary)	53,244	57,191	266	286
Use (1/2%)	1,797,901	2,317,769	8,988	11,589
Adjustments	-	-	-	-32

1/ Revised from 1981 edition, table 194.

2/ Insurance solicitors at 0.15%; others at 0.5%.

3/ The "Blind, Deaf and Disabled" category, which used to be reported separately, is now combined with "Wholesaling.".

Source: Hawaii State Department of Taxation, General Excise and Use Tax Base and General Excise and Use Tax Collections (calendar year summary tables).

Table 213.-- REAL PROPERTY TAX VALUATIONS: ANNUALLY, 1972 TO 1982

[In thousands of dollars. As of July 1 through 1976 and January 1, 1977 and later years.]

Year	Assessment ratio 1/	Assessor's gross valuation			Valuation for tax rate purposes
		Total	Land	Improvement	
1972 ...	70	9,744,772	5,312,116	4,432,657	6,068,713
1973 ...	70	10,762,052	5,884,121	4,877,931	6,807,565
1974 ...	70	12,642,408	6,677,996	5,964,412	8,316,444
1975 ...	70	15,254,436	8,025,847	7,228,589	10,236,457
1976 ...	60	15,519,576	8,826,837	6,692,739	9,806,352
1977 ...	60	15,951,005	8,886,616	7,064,389	10,114,771
1978 ...	60	17,761,105	9,846,501	7,914,604	11,531,484
1979 ...	60	19,376,848	10,690,826	8,686,022	12,908,172
1980 ...	60	21,881,304	12,074,217	9,807,087	14,831,641
1981 ...	60	25,371,079	13,775,220	11,595,859	17,933,736
1982 ...	60	29,631,825	15,982,660	13,649,165	21,397,832

1/ Percent of fair market value.

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates" (annual release, through 1980); Honolulu Department of Finance, Real Property Assessment Division, "Real Property Tax Valuations and Tax Rates for the Fiscal Year 1981-82," and "Real Property Tax Valuations, Tax Rates, & Exemptions, 1982-83 Tax Year, State of Hawaii."

Table 214.-- REAL PROPERTY TAX VALUATIONS: 1972 TO 1982

[In thousands of dollars.]

Subject	1972	1981	1982
Assessor's gross valuation 1/	9,744,772	25,371,079	29,631,825
Land	5,312,116	13,775,220	15,982,660
Improvement	4,432,657	11,595,859	13,649,165
Exemptions	3,610,282	7,363,906	8,129,360
Federal	848,448	1,175,428	1,273,390
State	986,200	2,117,885	2,399,785
County	314,379	656,691	771,156
Hawaiian Homes Commission	13,215	30,245	66,757
Homes -- fee	740,189	1,699,450	1,777,043
Homes -- leasehold	228,262	535,287	544,873
Public utilities	67,277	134,604	150,430
All other 2/	412,312	1,014,316	1,145,926
Assessor's net taxable valuation	6,134,490	18,007,173	21,502,465
Half of valuation on appeal	65,777	73,437	104,633
Number of appeals	1,528	1,287	3,234
Valuation for tax rate purposes	6,068,713	17,933,736	21,397,832
Land	3,526,363	9,882,163	11,506,523
Improvement	2,542,349	8,051,573	9,891,309
Amount to be raised by taxation 3/	105,837	254,782	276,982

1/ As of July 1, 1972 and January 1, 1981 and 1982.
2/ Mostly churches, non-profit organizations, and hospitals.
3/ For fiscal years beginning July 1.
Source follows next table.

Table 215.-- REAL PROPERTY TAX VALUATIONS AND TAX RATES, BY COUNTIES: 1982

[Unless otherwise specified, in thousands of dollars.]

Subject	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation 1/	21,962,047	3,601,625	2,835,885	1,232,268
Land	12,128,988	1,732,032	1,567,985	553,655
Improvement	9,833,059	1,869,593	1,267,900	678,613
Exemptions	6,866,943	431,146	647,539	183,732
Federal	1,252,426	4,174	11,423	5,367
State	2,031,699	97,972	234,114	36,000
County	678,214	49,825	27,844	15,273
Hawaiian Homes Commission	50,082	3,380	11,527	1,768
Homes -- fee	1,232,630	186,912	258,453	99,048
Homes -- leasehold	516,571	10,399	15,750	2,153
Public utilities	126,001	12,421	10,377	1,631
All other 2/	979,320	66,063	78,051	22,492
Assessor's net taxable valuation .	15,095,104	3,170,479	2,188,346	1,048,536
Half of valuation on appeal	56,854	19,760	7,490	20,529
Number of appeals	1,324	780	341	789
Valuation for tax rate purposes ..	15,038,250	3,150,719	2,180,856	1,028,007
Land	8,194,999	1,544,847	1,297,364	469,313
Improvement	6,843,251	1,605,872	883,492	558,694
Amount to be raised by taxation 3/	202,072	23,630	36,387	14,893
County tax rate per $1,000 value 4/	15.23	7.50	17.90	14.50

1/ As of January 1. The legal assessment ratio is 60 percent.

2/ Includes churches, non-profit organizations, hospitals, low-moderate income housing, schools, government leases, etc.

3/ For fiscal year beginning July 1.

4/ In dollars. For fiscal year beginning July 1.

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates" for 1972-73; City and County of Honolulu Department of Finance, Real Property Assessment Division, "Real Property Tax Valuations and Tax Rates for the Fiscal Year 1981-82," and "Real Property Tax Valuations, Tax Rates, & Exemptions, 1982-83 Tax Year, State of Hawaii."

Table 216.-- MAXIMUM ASSESSED VALUE PER SQUARE FOOT FOR LAND, BY ISLANDS: JANUARY 1, 1982

[The legal assessment ratio is 60 percent of fair market value.]

Island	Location	Use	Assessed value per square foot (dollars)
Hawaii	Hilo	Commercial	10.08
Maui	Lahaina	Commercial	48.00
Lanai	Lanai City	Commercial	2.50
Molokai ...	Kaluakoi Resort	Residential	5.10
Oahu	Waikiki Beach	Hotel apt.	104.04
Kauai	Waiohai Hotel	Hotel	9.01
Niihau	Entire island	...	1/ 4.34

1/ Per acre.

Source: City and County of Honolulu, Department of Finance, Property Technical Office, data provided April 26, 1982.

Table 217.-- ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1969 TO 1979

Year earned	Number of returns	Adjusted gross income (less deficit)	
		Total ($1,000)	Per return (dollars)
1969	290,251	2,407,048	8,293
1970	302,426	2,802,445	9,267
1971	308,814	3,010,051	9,747
1972	318,023	3,250,608	10,221
1973	345,211	3,749,212	10,861
1974	346,824	3,957,023	11,409
1975	358,510	4,269,028	11,908
1976	362,956	4,625,609	12,744
1977	380,937	5,218,740	13,700
1978	403,217	5,943,659	14,741
1979 1/ ...	412,922	6,493,228	15,725

1/ Revised from 1981 edition, table 199.

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income. Individual Income Tax Returns (annual), and records.

Table 218.-- INCOME DISTRIBUTION REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1970, 1978 AND 1979

[By year in which income was received. Comparability from year to year is affected by changes in tax laws, changes in return forms and other factors.]

Size of adjusted gross income	1970	1978	1979
All returns	302,426	403,217	412,922
Under $5,000	113,236	103,777	97,399
$5,000 under $10,000	76,465	86,819	89,037
$10,000 under $15,000	56,096	62,559	63,473
$15,000 under $20,000	31,559	43,842	45,042
$20,000 under $25,000	13,173	29,650	31,998
$25,000 under $30,000	4,698	30,927	28,081
$30,000 under $50,000	5,411	37,397	46,767
$50,000 under $100,000	1,480	7,031	9,490
$100,000 under $200,000	254	1,007	1,331
$200,000 under $500,000	50	177	254
$500,000 under $1,000,000 ..	4	23	34
$1,000,000 or more		8	16
Median income (dollars)	6,928	10,737	11,577

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income, Individual Income Tax Returns (annual).

Table 219.-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX RETURNS, TOTAL AND JOINT: 1979

[Income earned in 1979.]

Type of return and size of adjusted gross income	Number of returns	Adjusted gross income less deficit ($1,000)	Total income tax	
			Number of returns	Amount ($1,000)
ALL RETURNS				
Total	412,922	6,493,228	324,163	897,297
Under $5,000	97,399	185,604	20,877	2,231
$5,000 under $10,000	89,037	651,507	78,184	40,341
$10,000 under $15,000	63,473	763,313	62,586	71,085
$15,000 under $20,000	45,042	782,810	44,884	90,668
$20,000 under $25,000	31,998	723,982	31,938	89,635
$25,000 under $50,000	74,848	2,495,230	74,672	374,264
$50,000 or more	11,125	890,783	11,022	229,073
JOINT RETURNS OF HUSBANDS AND WIVES				
Total	193,216	4,674,080	175,868	670,177
Under $5,000	7,938	2,119	54	159
$5,000 under $10,000	27,169	216,864	18,978	7,246
$10,000 under $15,000	30,542	379,845	29,697	24,908
$15,000 under $20,000	25,633	451,745	25,477	43,295
$20,000 under $25,000	24,393	552,735	24,333	58,400
$25,000 under $50,000	67,533	2,280,046	67,413	339,062
$50,000 or more	10,008	790,726	9,916	197,107

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income--1979, Individual Income Tax Returns (March 1982), p. 133.

Table 220.-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE INCOME TAX RETURNS, BY TYPE OF RETURN: 1970 TO 1980

[In dollars.]

Year income was received	Taxable and nontaxable returns			Taxable returns only		
	All returns	Single 1/	Joint	All returns	Single 1/	Joint
1970	7,018	2,969	12,358	8,348	3,981	13,072
1971	7,366	2,962	12,685	8,936	4,263	13,497
1972	7,462	3,284	13,515	9,218	4,553	14,358
1973	7,680	3,262	14,114	9,666	4,650	15,189
1974	7,844	3,774	15,319	9,945	5,193	16,667
1975	8,140	3,890	16,350	10,448	5,406	17,706
1976	(NA)	4,318	(NA)	10,608	5,790	18,705
1977 2/	8,726	4,236	17,716	11,057	5,838	19,718
1978 2/	9,302	4,538	20,276	12,279	6,274	22,335
1979	8,738	4,757	20,073	11,804	6,875	22,636
1980	9,676	5,294	21,510	13,464	7,639	24,980

NA Not available.

1/ Including married filing separately and heads of households.

2/ Revised from 1981 edition, table 202.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns, Individuals (annual).

Table 221.-- STATE INCOME TAX RETURNS ON INCOME RECEIVED DURING 1979, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ ($1,000)	Net taxable income ($1,000)	Tax liability ($1,000)
All returns	431,906	5,639,290	3,871,963	282,093
Taxable returns 2/	340,162	5,473,449	3,818,885	279,008
$800, under $5,000	80,930	221,452	121,027	4,724
$5,000, under $10,000	73,832	550,306	374,959	21,336
$10,000, under $15,000	48,613	598,887	421,809	27,273
$15,000, under $20,000	36,313	635,392	437,558	29,823
$20,000, under $25,000	30,251	679,535	466,718	33,344
$25,000, under $30,000	22,562	617,448	423,909	30,930
$30,000, under $50,000	38,828	1,455,620	1,042,557	82,045
$50,000, under $75,000	6,340	368,529	267,749	23,276
$75,000, under $100,000 ...	1,244	106,798	80,525	7,503
$100,000, under $150,000 ..	715	85,092	67,896	6,746
$150,000 and over	534	154,390	114,178	12,008
Nontaxable returns 2/	70,635	67,983	-	-
Loss	1,298	(6,776)	-	-
Under $800	51,593	10,762	-	-
$800, under $5,000	14,763	29,105	-	-
$5,000 and over	2,981	28,116	-	-
Nonresident returns	21,109	97,858	53,078	3,085

1/ Totals and subtotals exclude losses.

2/ The median adjusted gross income was $11,576 for taxable returns and $528 for nontaxable returns.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns 1979, Individuals, and records.

Table 222.-- STATE INCOME TAX RETURNS ON INCOME RECEIVED DURING 1980, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ ($1,000)	Net taxable income ($1,000)	Tax liability ($1,000)
All returns	423,858	6,506,757	4,207,796	317,134
Taxable resident returns	329,979	6,266,234	4,207,796	317,134
$1,000, under $5,000	63,673	185,549	92,466	3,562
$5,000, under $10,000	63,597	472,676	299,040	16,939
$10,000, under $20,000	86,322	1,253,589	835,144	55,950
$20,000, under $30,000	52,604	1,290,332	861,877	62,707
$30,000, under $50,000	46,669	1,766,735	1,208,120	94,670
$50,000, under $100,000	14,912	940,287	657,238	57,668
$100,000 and over	2,202	357,066	253,910	25,638
Nontaxable resident returns ..	73,332	116,141	...	...
Loss	2,271	(34,974)	...	...
Under $5,000	65,588	53,334	...	...
$5,000, under $10,000	3,558	23,884	...	...
$10,000 and over	1,915	38,923	...	...
Nonresident returns	20,547	124,382	...	...

1/ Total and subtotals exclude losses.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns 1980, Individuals, pp. 23 and 24.

Table 223.-- FEDERAL AID: 1977 TO 1981

[In thousands of dollars.]

Years ended September 30	Amount
1977	400,144
1978	413,391
1979	407,881
1980	463,258
1981	442,955

Source: U.S. Department of the Treasury, Federal Aid to States (annual).

Table 224.-- FEDERAL OUTLAYS IN HAWAII: 1968 TO 1980

[In thousands of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter. This series was discontinued after publication of the 1980 data.]

Fiscal year	All agencies	Department of Defense	Nondefense agencies
1968	848,383	498,196	350,187
1969	987,814	564,957	422,857
1970	963,668	524,474	439,194
1971	1,075,111	622,528	452,583
1972	1,173,340	669,999	503,341
1973	1,435,341	806,565	628,776
1974	1,643,890	943,622	700,268
1975	2,060,344	1,106,976	953,368
1976	2,162,221	1,221,098	941,123
1977	2,065,800	995,085	1,070,715
1978	2,507,095	1,239,947	1,267,148
1979	2,659,230	1,371,860	1,287,370
1980	3,151,277	1,647,987	1,503,290

Source: U.S. Office of Economic Opportunity (1968-1975) and U.S. Community Services Administration (1976-1980), Federal Outlays in Hawaii (annual report, 1968-1976) and Geographic Distribution of Federal Funds in Hawaii (annual report, 1977-1980).

Table 225.-- FEDERAL OUTLAYS IN HAWAII, BY AGENCIES AND FUNCTIONS: FISCAL YEAR ENDED SEPTEMBER 30, 1980

[In thousands of dollars.]

Agency or function 1/	Outlay
Total outlays	3,151,277
Agency funds:	
Dept. of Agriculture	104,683
Dept. of Defense	1,647,987
Dept. of Education	52,081
Dept. of Health and Human Services	617,294
Dept. of Housing and Urban Development	26,439
Dept. of Labor	72,366
Dept. of Transportation	148,385
Dept. of the Treasury	49,908
Environmental Protection Agency	34,892
Federal Home Loan Bank Board	27,100
Office of Personnel Management	163,650
Postal Service	52,219
Veterans Administration	64,500
Functions:	
Dept. of Defense -- Military	1,647,987
Postal service	52,219
Ground transportation	67,777
Training and employment	57,179
Health care services	166,284
General retirement and disability insurance	363,742
Federal employee retirement and disability	145,143
Public assistance and other income supplements	165,958

1/ Shown separately for agencies over $25,000,000 and functions over $50,000,000.

Source: Community Services Administration, Geographic Distribution of Federal Funds in Hawaii, Fiscal Year 1980.

Table 226.-- FEDERAL OUTLAYS IN HAWAII, BY COUNTIES: FISCAL YEAR ENDED SEPTEMBER 30, 1980

[In thousands of dollars.]

County	All agencies	Department of Defense	Nondefense agencies
State total	3,151,277	1,647,987	1,503,290
City and County of Honolulu	2,790,032	1,604,757	1,185,275
Hawaii County	160,771	11,312	149,459
Kalawao County	590	-	590
Kauai County	86,646	16,832	69,814
Maui County	113,238	15,086	98,152

Source: Community Services Administration, Geographic Distribution of Federal Funds in Hawaii, Fiscal Year 1980.

Table 227.-- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: 1971 TO 1981

[In millions of dollars. As of December 31.]

Year	Total bonded debt 1/	State debt	County debt			
			Honolulu	Maui	Hawaii	Kauai
1971	925.5	679.3	198.9	25.4	17.1	4.9
1972	1,080.4	804.1	215.8	24.6	26.3	9.6
1973	1,219.4	944.1	212.1	23.9	25.0	14.3
1974	1,274.4	1,005.2	198.5	23.2	33.6	13.9
1975	1,435.9	1,185.6	182.8	22.4	31.8	13.3
1976	1,667.2	1,385.9	211.0	21.0	36.9	12.4
1977	1,775.7	1,483.1	226.9	19.6	34.6	11.5
1978	1,916.8	1,607.1	238.5	18.2	37.3	15.7
1979	1,971.9	1,677.6	224.3	16.8	38.3	14.9
1980	2,054.3	1,764.9	207.5	22.4	45.6	13.8
1981	2,217.9	1,883.6	235.5	21.1	46.2	31.4

1/ Outstanding state and county bonds, both general obligation and revenue bonds.

Source: Tax Foundation of Hawaii, Government in Hawaii (annual).

Table 228.-- STATE GENERAL OBLIGATION BOND DEBT: 1971 TO 1981

[In dollars. As of June 30.]

Year	G. O. bond debt	Cash reserve for serial bonds	Net debt
1971	434,895,000.00	2,595,593.63	432,299,406.37
1972	522,918,000.00	2,109,114.74	520,808,885.26
1973	689,764,000.00	2,262,632.80	687,501,367.20
1974	770,325,000.00	2,821,305.76	767,503,694.24
1975	810,021,000.00	2,396,217.52	807,624,782.48
1976	1,039,744,000.00	1,422,038.00	1,038,321,962.00
1977	1,165,459,000.00	852,531.27	1,164,606,468.73
1978	1,336,906,000.00	496,979.40	1,336,409,020.60
1979	1,343,780,000.00	139,000.00	1,343,641,000.00
1980	1,418,764,000.00	139,000.00	1,418,625,000.00
1981	1,331,326,266.00	139,000.00	1,331,187,266.00

Source: Hawaii State Department of Accounting and General Services, information submitted March 4, 1982.

Table 229.-- FEDERAL, STATE, AND COUNTY EMPLOYMENT: ANNUAL AVERAGES, 1970 TO 1981

Year	Total government	Federal			State	Counties
		Total	Defense 1/	Non-defense		
1970	73,640	33,380	22,080	11,300	30,600	9,660
1971	78,220	32,920	21,520	11,400	34,920	10,380
1972	79,400	32,700	21,200	11,500	35,300	11,450
1973	78,050	31,650	20,600	11,050	35,250	11,150
1974	78,900	31,000	20,200	10,800	35,950	11,950
1975	82,000	30,550	19,700	10,850	38,700	12,750
1976	84,800	29,850	19,200	10,600	41,350	13,600
1977	85,700	29,300	19,000	10,250	42,650	13,800
1978	87,050	29,350	19,100	10,250	43,350	14,350
1979	86,500	29,700	18,850	10,800	43,300	13,500
1980	89,050	30,000	18,700	11,250	45,150	13,900
1981	89,000	30,350	19,400	10,900	45,250	13,350

1/ Air Force, Army, and Navy.

Source: Hawaii State Department of Labor and Industrial Relations, State of Hawaii Labor Force Statistics for 1970 and 1971, Labor Force Data Book (March 1978), as revised May 1982, and records.

Table 230.-- STATE CIVIL SERVICE: 1979 TO 1981

[Years ended June 30. The State civil service system does not cover elected or appointed officials, public school teachers, university faculty, and other exempt positions.]

Subject	1979	1980	1981
Civil service employees	17,111	17,327	18,221
Department of Education	4,019	3,985	4,502
Department of Health	4,372	4,393	4,683
Department of Social Services and Housing	1,776	1,874	2,090
Department of Transportation	1,888	1,862	1,846
University of Hawaii	1,492	1,514	1,536
All others	3,564	3,699	3,564
Separations	1,639	2,155	2,633
Promotions	781	789	768
Transfers, demotions, and returns after promotions	664	843	866
Classification actions processed	3,323	3,999	3,127
Applications received	21,215	19,761	21,292
Applicants screened	20,598	18,650	21,110
Applicants placed on eligible list	10,396	7,704	10,445
Vacancies filled by competitive and noncompetitive actions	2,788	3,648	3,187

Source: Hawaii State Department of Personnel Services, 1980-81 Annual Report, pp. 3, 5, and 7.

Table 231.-- STATE SALARY SCHEDULES FOR SELECTED SR LEVELS: 1980 TO 1982

[In dollars per month. As of July 1. Data refer to lowest and highest rate among six bargaining units classified under the salary range schedules. The bargaining units are: 3, white-collar; 4, white-collar supervisors; 9, registered nurses; 10, hospital and institutional; 11, State Government firefighters; and 13, professional and scientific.]

Salary range	Lowest			Highest		
	1980	1981	1982	1980	1981	1982
SR-4	651	705	770	1,048	1,063	1,261
SR-11	869	941	1,028	1,379	1,391	1,637
SR-21	1,336	1,425	1,551	2,071	2,171	2,555
SR-31/EM-8 ..	2,009	2,160	2,425	3,213	3,456	4,034

Source: Hawaii State Department of Personnel Services, records.

Section 9

SOCIAL INSURANCE AND WELFARE SERVICES

This section presents data related to governmental expenditures on social welfare; programs for old-age, survivors, disability and health insurance; public employees retirement; unemployment insurance; aid to the needy; and maternal, child, and other welfare services. Also included here are selected statistics on private charity and welfare programs.

Total public welfare costs reached $287 million in fiscal 1981, compared with $68 million a decade earlier. About 54 percent of the 1981 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1981 was 72,480, or 7.5 percent of the resident population of the State at the beginning of the year. Two-thirds of all public assistance payments and 54 percent of all recipient cases were accounted for by aid to families with dependent children. The average monthly payment per case for public assistance was $343, almost twice as much as in 1970. Participation in the food stamp program included 40,500 households and 104,000 persons. Among workers receiving unemployment compensation in 1981, weekly benefits averaged $114. Almost 110,000 Hawaii residents were receiving Social Security benefits as of the end of 1979, and about 70,000 were enrolled for Medicare. There were also 13,000 State and County government pensioners in 1981, with annual benefits in excess of $98 million. Child adoptions in 1981 numbered 659. The Aloha United Way reported agency allocations of $7.9 million on Oahu and $1.4 million on the Neighbor Islands in 1981. A recent comparative study of the "quality of life" in 277 American metropolitan areas ranked Honolulu 28th.

Major data sources include reports and records of the U.S. Department of Health and Human Services, the Hawaii State Department of Social Services and Housing, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Employees' Retirement System, and the Aloha United Way. Historical Statistics of Hawaii, Section 8, contains data for earlier years. Section 11 of the Statistical Abstract of the United States: 1981 presents comparable Mainland data.

Table 232.-- SOCIAL WELFARE COSTS: 1971 TO 1981

[In thousands of dollars. For years ended June 30.]

Year	Total cost	By source of funds		By expenditure category			
		Federal	State	Administration	Medical payments	Money payments	Social service costs
1971	67,645	27,769	39,876	5,483	23,926	38,236	-
1972	94,212	38,143	56,069	6,324	34,278	53,610	-
1973	107,237	43,107	64,130	6,757	35,542	64,180	758
1974	111,627	45,782	65,845	7,933	39,096	63,131	1,467
1975	121,643	47,163	74,479	8,262	41,158	70,622	1,601
1976	168,440	67,629	100,811	10,701	60,685	87,956	9,098
1977	194,203	79,151	115,052	13,505	69,677	100,322	10,699
1978	230,111	93,490	136,621	14,206	93,399	111,275	11,231
1979	244,898	101,411	143,487	15,250	104,694	113,854	11,100
1980	255,280	109,734	145,547	18,999	112,024	112,793	11,464
1981	286,709	131,652	155,057	19,595	135,541	118,346	13,227

Source: Hawaii State Department of Social Services and Housing, records.

Table 233.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING: 1971 TO 1981, MONTHLY AVERAGES

Year ended June 30	Major programs 1/		Service cases 2/	Medical payments 3/		Average money payments 4/ (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
1971	16,467	44,897	743	4,073	4,496	198.20	72.69
1972	20,627	57,462	1,767	4,068	5,672	220.79	79.26
1973	24,400	66,535	7,833	3,040	4,612	227.11	82.30
1974	21,713	63,807	7,242	5,653	6,912	237.54	85.10
1975	20,850	59,911	7,777	8,212	8,963	275.20	95.77
1976	24,438	67,594	9,067	10,825	11,675	295.17	106.72
1977	36,534	81,938	12,610	12,303	13,329	307.76	114.52
1978 5/..	28,575	75,485	15,000	14,381	15,572	321.63	121.75
1979 5/..	27,399	72,928	16,993	13,796	14,890	334.90	150.99
1980 5/..	27,219	71,693	16,312	12,932	13,598	337.59	128.17
1981	27,604	72,480	15,281	11,763	12,104	342.67	130.68

1/ Old age assistance, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, child welfare foster care, and general assistance. Old age assistance, aid to the blind and aid to disabled assisted through the Federal Social Security Administration with State supplements excluded beginning January 1, 1974.

2/ Data for 1976 and 1977 are quarterly averages.

3/ Ineligible for money assistance, receiving medical payment only.

4/ Gross obligation basis.

5/ Major program recipients, 1980, and service cases, 1978-1980, revised from 1981 Data Book, table 216.

Source: Hawaii State Department of Social Services and Housing, records.

Table 234.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING, BY COUNTIES: 1981

[Monthly averages for year ended June 30, 1981.]

County	Major programs 1/		Service cases	Medical payments 2/		Average money payments 3/ (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
State total	27,604	72,480	15,281	11,763	12,104	342.67	130.68
Hawaii	3,878	10,470	2,122	1,715	1,801	350.25	129.96
Maui	2,112	5,227	1,739	930	953	329.58	133.32
Honolulu	20,558	54,300	10,452	8,427	8,651	343.75	130.40
Kauai	1,056	2,483	969	694	727	315.00	134.15

1/ Old-age assistance, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, child welfare foster care, and general assistance.

2/ Ineligible for money assistance, receiving medical payment only.

3/ Gross obligation basis.

Source: Hawaii State Department of Social Services and Housing, records.

Table 235.-- PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1980 AND 1981

[Years ended June 30.]

Program	Total payments ($1,000)		Recipient cases (monthly average)		Average monthly payment (dollars)	
	1980	1981	1980	1981	1980	1981
All programs	128,749	135,521	35,753	36,698	300	308
Old age assistance 1/ .	8,090	9,092	4,985	4,984	135	152
Aid to the blind 1/ ...	338	396	148	156	190	211
Aid to disabled 1/	10,683	12,375	4,891	5,022	182	205
Aid to families with dependent children 2/	89,287	92,505	19,207	19,963	387	386
Child welfare foster care	1,134	1,120	599	580	158	161
General assistance	19,217	20,033	5,923	5,993	270	278

1/ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

2/ Includes AFDC unemployed parent and AFDC foster care.

Source: Hawaii State Department of Social Services and Housing, records.

Table 236.-- FOOD STAMPS: 1980 AND 1981

[Years ended June 30.]

Subject	1980	1981
Participation in food stamp program (monthly averages)		
Households, total participating	38,462	40,461
Public assistance recipients	22,799	23,452
Other participants 1/	15,663	17,009
Persons, total participating	99,586	104,033
Public assistance recipients	61,413	63,184
Other participants 1/	38,173	40,849
Food stamp purchase amount and bonus ($1,000)		
Total value of food stamps to recipients ...	57,378	66,428
Purchase (amount paid for by recipients)	-	-
Bonus or free coupons given to recipients	57,378	66,428

1/ Not receiving public assistance (food stamp only).

Source: Hawaii State Department of Social Services and Housing, records.

Table 237.-- MEDICARE ENROLLMENT AND REIMBURSEMENT: 1980

Coverage	Enrollment, July 1, 1980		Reimbursement, 1980 ($1,000)	
	Age 65 and over	Disabled and renal disease	Age 65 and over	Disabled and renal disease
Hospital and/or medical	73,961	7,440	76,449	14,693
Hospital	72,121	7,440	49,366	7,243
Medical	71,487	6,801	27,083	7,450

Source: U.S. Department of Health and Human Services, Health Care Finance Agency, data supplied May 1982.

Table 238.-- SOCIAL SECURITY RECIPIENTS AND BENEFITS: 1970 TO 1980

Year	Number of recipients at end of year	Monthly amount payable at end of year		Total amount paid during year 1/ ($1,000)
		Total ($1,000)	Per recipient (dollars)	
1970	66,488	6,437	96.81	77,593
1971	70,912	7,666	108.11	92,440
1972	76,413	10,141	132.71	107,125
1973	82,224	11,202	136.24	134,198
1974	87,141	13,433	154.15	155,178
1975	91,731	15,629	170.38	181,775
1976	96,230	17,894	185.95	210,423
1977	101,911	20,669	202.81	241,814
1978	105,988	23,464	221.38	273,564
1979	109,952	27,462	249.76	310,320
1980	(NA)	(NA)	(NA)	365,861

NA Not available.

1/ Includes also retroactive benefits and lump-sum death payments.

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, records.

Table 239.-- CHARACTERISTICS OF OLD-AGE, SURVIVORS AND DISABILITY INSURANCE BENEFICIARIES: JUNE 30, 1980

[Monthly cash benefits in current-payment status.]

Subject	Number of benefits		Amount of benefits ($1,000)	
	State total	Oahu	State total	Oahu
Total	111,003	78,968	31,980	22,777
Benefit category:				
Retired worker	62,416	44,778	21,218	15,129
Disabled worker	6,984	5,092	2,607	1,900
Wife or husband	10,832	7,252	1,628	1,086
Children	19,491	13,726	3,338	2,374
Widow, widower, or parent ..	11,280	8,120	3,189	2,289
Age of beneficiary:				
Under 65 years	43,232	30,618	10,007	7,106
65 to 71 years	32,579	23,265	21,973	15,671
72 years and over	35,192	25,085		
Sex of adult beneficiaries:				
Men	43,667	30,213	16,371	11,291
Women	47,845	35,029	12,271	9,112

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Policy, Office of Research and Statistics, data supplied May 1982.

Table 240.-- UNEMPLOYMENT INSURANCE: 1970 TO 1981

Calendar year	Covered employment		Insured unemployment		Average weekly total wages (dollars)
	Total	Percent of total jobcount	Total	Percent of total unemployment	
1970 ...	302,388	91	7,369	46	131.87
1971 ...	309,901	91	12,315	53	135.38
1972 ...	321,751	92	14,485	54	141.92
1973 ...	335,615	92	12,107	46	151.17
1974 ...	342,615	91	13,900	47	162.25
1975 ...	350,481	92	18,779	59	174.42
1976 ...	357,770	92	21,480	55	183.87
1977 ...	367,518	92	16,438	55	192.29
1978 ...	384,214	92	11,287	36	207.98
1979 ...	400,311	92	10,381	42	225.84
1980 ...	413,095	93	11,291	56	244.56
1981 ...	(NA)	(NA)	12,224	51	(NA)

Calendar year	Gross benefits 1/ ($1,000)	Weekly benefits 1/		Average benefit duration 1/ (weeks)	Exhaustion rate 1/ (percent)
		Maximum (dollars)	Average (dollars)		
1970 ...	20,655	79	58.15	15.0	21.3
1971 ...	35,390	86	63.38	18.3	33.8
1972 ...	37,865	90	65.57	19.9	41.7
1973 ...	37,014	93	67.57	16.0	30.2
1974 ...	45,208	98	71.86	16.2	35.3
1975 ...	58,942	104	76.34	16.4	34.1
1976 ...	71,574	112	83.84	18.9	48.4
1977 ...	55,823	120	88.68	16.4	36.0
1978 ...	45,653	126	91.25	16.2	34.1
1979 ...	39,864	134	93.07	13.5	23.1
1980 ...	49,222	144	102.91	13.7	22.0
1981 ...	66,194	157	113.59	14.2	24.9

NA Not available.

1/ Regular benefits only. Excludes extended benefits.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (July 1982), pp. 17, 19, 25, 37, 42, and 43.

Table 241.-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1971 TO 1981

Year	Membership, March 31	Pensioners, March 31	Assets, 1/ June 30 (dollars)	Total benefits paid 2/ (dollars)	Average monthly pension 2/ (dollars)	Administration expenses 2/ (dollars)
1971 ..	42,262	6,069	435,463,758	25,665,295	231	418,754
1972 ..	43,736	6,667	489,436,678	31,359,208	247	478,522
1973 ..	44,471	7,343	545,465,277	37,601,889	262	425,864
1974 ..	43,371	7,971	611,675,571	41,130,325	271	487,504
1975 ..	44,363	8,600	683,305,413	46,782,477	297	563,513
1976 ..	45,256	9,263	773,878,470	53,625,776	313	631,714
1977 ..	46,371	10,099	886,596,717	59,158,256	330	725,621
1978 ..	47,273	10,772	1,007,744,828	61,211,832	347	775,393
1979 ..	47,476	11,382	1,144,077,004	70,062,195	352	823,891
1980 ..	48,868	12,052	1,301,853,352	78,415,562	390	932,899
1981 ..	49,426	13,012	1,474,543,376	94,345,203	416	1,069,419

1/ Book value.

2/ Year ended June 30. Data on total benefits paid exclude pensioners' bonus and social security.

Source: Employees' Retirement System of the State of Hawaii, 55th Annual Report, June 30, 1981, pp. 18 and 32, and records.

Table 242.-- CHILD ADOPTIONS: 1976 TO 1981

Type of adoption	1976	1977	1978	1979	1980	1981
Total	682	606	537	786	670	659
By relatives	540	470	371	583	471	429
By nonrelatives	142	136	166	203	199	230
Placed by social agencies ...	69	70	94	129	119	125

Source: Hawaii State Department of Social Services and Housing, tabulations from SRS-NCSS-280 Adoption Card.

Table 243.-- FOUNDATIONS: 1979-1980

[Figures are for latest year reported by foundations at time of survey. A foundation may be defined as a nongovernmental, nonprofit organization, with funds and programs managed by its own trustees or directors, and established to maintain or aid social, educational, charitable, religious, or other activities serving the common welfare, primarily by making grants. Excludes organizations which make general appeals to the public for funds, act as trade associations for industrial or other special groups, are restricted by charter solely to aiding one or several named institutions, or which are captive trusts, within colleges, churches, or other organizations.]

Name of foundation	Assets ($1,000)	Grants paid ($1,000)
All foundations	120,247.4	5,182.6
Amfac Foundation 1/	940.8	350.9
Anthony (Barbara Cox) Foundation 1/	16,722.6	73.7
Atherton Family Foundation 1/	24,218.8	1,491.3
Castle (Harold K. L.) Foundation 1/	24,159.7	87.5
Castle (Samuel N. and Mary) Foundation 1/	11,328.6	757.3
Cooke Foundation, Limited 2/	8,312.3	382.5
Frear (Mary D. and Walter F.) Eleemosynary Trust 1/	2,799.0	179.4
Hawaiian Foundation, The 1/	3,747.9	178.7
Ho (Chinn) Foundation 1/	1,466.4	146.8
McInerny Foundation 3/	14,387.4	813.7
Straub (Gertrude S.) Trust Estate 3/	2,010.8	-
Watumull (Rama) Fund 3/	310.7	106.0
Wilcox (G. N.) Trust 1/	6,832.1	489.2
Wilcox (S. W.) Trust 1/	3,010.2	125.7

1/ Fiscal year ended December 31, 1979.
2/ Fiscal year ended June 30, 1980.
3/ Fiscal year ended September 30, 1980.

Source: Foundation Center, Foundation Directory (Summer 1981), as retrieved through the Dialog Information Retrieval Service computer bank, File 26, on April 29, 1982.

Table 244.-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS: 1976 TO 1981

[In dollars.]

Year	Four island total	Oahu 1/	Hawaii 2/	Kauai 3/	Maui 4/
TOTAL REVENUES					
1976	7,321,190	6,204,303	507,442	207,096	402,349
1977	7,847,055	6,617,452	545,430	224,099	460,074
1978	8,418,900	7,149,078	564,578	228,440	476,804
1979	8,993,375	7,624,588	590,582	247,666	530,539
1980	9,833,286	8,190,293	636,072	261,899	745,022
1981	10,338,063	8,653,172	693,686	285,922	705,283
CONTRIBUTIONS					
1976	7,151,587	6,052,054	498,166	204,632	396,735
1977	7,699,256	6,487,420	535,796	221,778	454,262
1978	8,142,554	6,893,082	553,107	225,891	470,474
1979	8,852,477	7,510,568	577,408	244,867	519,634
1980	9,265,006	7,890,704	613,528	257,375	503,399
1981	10,271,048	8,647,244	665,253	279,846	678,705
TOTAL OUTLAYS					
1976	7,274,522	6,184,064	478,389	201,215	210,854
1977	7,704,657	6,514,799	522,213	219,243	448,402
1978	8,218,882	6,953,222	557,735	225,411	482,514
1979	8,920,736	7,563,216	600,905	240,823	515,792
1980	9,399,208	7,940,862	614,606	256,536	587,204
1981	10,393,563	8,725,788	691,370	282,945	693,460
AGENCY ALLOCATIONS					
1976	6,537,840	5,576,158	417,430	184,140	360,112
1977	7,007,059	5,950,252	459,619	201,082	396,106
1978	7,520,694	6,405,377	485,869	206,748	422,700
1979	8,199,320	6,972,047	523,759	221,000	482,514
1980	8,554,649	7,287,382	528,000	233,700	505,567
1981	9,308,287	7,867,395	595,665	258,500	586,727

Footnotes on next page.

Table 244.-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS: 1976 TO 1981 -- Con.

1/ Aloha United Way.
2/ Hawaii Island United Way, Inc.
3/ United Way of Kauai.
4/ Maui United Way.

Source: Aloha United Way, Annual Report (annual); Hawaii United Way, Inc., Financial Statements (annual), and records; United Way of Kauai and Maui United Way, records.

Table 245.-- SOCIAL SERVICE ORGANIZATIONS: 1977

[Data are shown only for tax-exempt individual and family social service organizations with payroll.]

Subject	Amount
Number of establishments	65
Payroll, entire year ($1,000)	6,967
Paid employees, mid-March	994
Percent of establishments providing --	
Job counseling	45.7
Other counseling	74.3
Adoption and foster care service	5.7
Traveler's aid service	5.7
Disaster and temporary relief service	14.3
Recreation service	25.7
Neighborhood development service	28.6
Fund-raising, exc. on a fee basis	25.7
Offender rehabilitation service	17.1
Alcohol and/or drug rehabilitation services	22.9
Other	51.4

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-9, Miscellaneous Subjects (June 1981), table 31.

Table 246.-- QUALITY OF LIFE INDEX RANKINGS, FOR THE STATE AND HONOLULU: 1960 TO 1980

Area ranked and authority	Year of data	Areas ranked	Local rank
State:			
Midwest Research Institute 1/	1960	51	14
Midwest Research Institute 2/	1970	51	15
Lifestyle Magazine 3/	(NS)	51	6
Honolulu:			
Griffin and Dee 4/	1960	48	4
Midwest Research Institute 5/	1970	65	31
University of Nebraska 6/	1970-76	100	7
Boyer and Savageau 7/	1975-80	277	28

NS Not specified.

1/ John O. Wilson, The Quality of Life in America (Midwest Research Institute Report, Winter 1967), pp. 10-11; cited in Ben-Chieh Liu, The Quality of Life in the United States 1970: Index, Rating, and Statistics (Midwest Research Institute, May 1973), p. 23.

2/ Liu, op. cit., p. 23.

3/ Lifestyle Publishing, Inc., Lifestyle Magazine, November 1972, p. 18; cited in Liu, op. cit., p. 23.

4/ John M. Griffin and Norbert Dee, "Measuring the Intangible: How to Quantify Quality of Life," Industrial Management, September-October 1975, pp. 9-15, espec. p. 10. Based largely on data for cities (rather than SMSAs).

5/ Ben-Chieh Liu, Quality of Life Indicators in the U.S. Metropolitan Areas, 1970 (Summary) (Midwest Research Institute, May 1975), p. 53. Based on data for SMSAs.

6/ Ralph H. Todd, "A City Index: Measurement of a City's Attractiveness," Review of Applied Urban Research (University of Nebraska at Omaha, Center for Applied Urban Research), Vol. 5, No. 7, July 1977, pp. 1-19. Based on data for cities rather than SMSAs.

7/ Richard Boyer and David Savageau, Places Rated Almanac (Rand McNally & Co., 1981), pp. 370 and 374. Based on SMSA data for "late 1970s through 1980."

Source cited in above footnotes

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard strength, civilian employment in national defense, veterans, military housing, and expenditures by the armed forces.

There were approximately 61,500 officers and enlisted men (including 15,300 aboard ships homeported in Hawaii) and 64,300 military dependents in the Islands as of July 1, 1981. This number has been relatively stable in recent years, but at the height of World War II more than 400,000 uniformed personnel were present. The Navy alone accounts for almost two-fifths of the current total. More than 11,900 Hawaii residents were in the armed forces worldwide in 1981. The importance of national defense in Hawaii can be further measured by total expenditures ($1.45 billion), military prime contract awards ($591 million), civilian employment (19,400), veterans in civil life (104,000), military personnel receiving retired or retainer pay (9,200 men, receiving $9.3 million monthly), military-connected pupils in public schools (16,516), military housing (19,000 units), and land controlled by the armed forces (223,000 acres). Defense expenditures are second only to tourism as a source of income to Hawaii.

The Department of Planning and Economic Development has, since 1959, issued periodic reports on Military Personnel and Dependents in Hawaii. Other published sources include reports of the U.S. Bureau of the Census, the Administrator of Veterans Affairs, the U.S. Department of Defense, the Hawaii State Department of Labor and Industrial Relations, Department of Defense, Department of Education, and the Hawaii State Census Statistical Areas Committee. Definitions used by these sources frequently differ to some degree, and care is accordingly necessary in comparing data issued by two or more agencies. In mid-1980, for example, the number of armed forces in Hawaii was reported as 50,673 by DOD, 58,000 by the Bureau of the Census, 58,579 by the Bureau of Economic Analysis and 61,019 by the local commanding officers reporting to DPED. Historical Statistics of Hawaii, Section 26, includes series on the armed forces dating back to 1795. Section 12 of the Statistical Abstract of the United States: 1981 presents data on national defense and veterans affairs for other States and the entire nation.

Table 247.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE ARMED FORCES WORLDWIDE: 1979 TO 1981

[Based on home of record.]

Date	Number
1979: March 31	11,069
1980: June 30	11,851
1981: June 30	11,927

Source: U.S. Department of Defense, Washington, Headquarters Services, Information Operations and Reports, records.

Table 248.-- ARMED FORCES AND DEPENDENTS: 1979 TO 1981

[Includes Navy personnel in Hawaiian waters, regardless of home port, and excludes all Coast Guard personnel; for these reasons, data differ somewhat from those in the following table.]

Year	Active-duty military personnel in Hawaii, June 30			Dependents located in Hawaii, March 31 1/
	Total	Shore-based 2/	Afloat 3/	
1979	54,216	44,758	9,458	57,030
1980	50,673	42,356	8,317	53,729
1981	52,619	44,315	8,304	52,628

1/ Including dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

2/ Including personnel afloat and mobile but temporarily shorebased.

3/ Navy personnel afloat, identified with nearest port.

Source: Department of Defense, Washington, Headquarters Services, Information Operations and Reports, records.

Table 249.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1982

[Includes Navy and Coast Guard personnel afloat on a homeported basis. Data differ somewhat from similar series compiled by the Bureau of the Census and Department of Defense, reported elsewhere in this volume.]

Date	Personnel and dependents	Military personnel 1/			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
1970: April 1 ..	117,943	56,085	41,362	14,723	61,858	20,558
July 1 ...	111,549	53,768	39,822	13,946	57,781	20,568
1971: July 1 ...	112,943	50,762	35,824	14,938	62,181	23,184
1972: July 1 ...	118,760	52,538	37,124	15,414	66,222	23,688
1973: July 1 ...	128,082	57,783	43,064	14,719	70,299	25,264
1974: July 1 ...	126,882	58,558	45,369	13,189	68,324	29,082
1975: July 1 ...	121,911	58,205	45,589	12,616	63,706	26,122
1976: July 1 ...	126,694	59,737	46,453	13,284	66,957	26,395
1977: July 1 ...	123,471	58,466	45,811	12,655	65,005	25,927
1978: July 1 ...	119,200	58,106	46,001	12,105	61,094	25,400
1979: July 1 ...	122,386	57,868	44,915	12,953	64,518	27,835
1980: April 1 ..	125,042	61,019	48,813	12,206	64,023	26,129
1981: July 1 ...	125,865	61,521	46,255	15,266	64,344	25,893
1982: July 1 ...	127,816	61,107	54,184	6,923	66,709	26,009

1/ Ship crews living ashore are included with the ashore total. The number of crew members living ashore increased sharply between 1981 and 1982, primarily because of the increased housing allowance offered to Navy personnel after June 1, 1982.

Source follows next table.

Table 250.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: JULY 1, 1982

[See headnote to preceding table.]

Island and service	Military personnel				Dependents in Hawaii	Military families
	Ashore and afloat	Ashore		Aboard ship		
		In hsg. units	In barracks			
State total ..	61,107	34,510	19,674	6,923	66,709	26,009
By island:						
Oahu	60,749	34,272	19,554	6,923	66,294	25,812
Hawaii	175	112	63	-	183	74
Maui	25	18	7	-	43	15
Kauai	138	107	31	-	186	107
Kure Atoll	19	-	19	-	-	-
By service:						
Air Force	6,042	4,831	1,211	-	8,976	3,452
Army	17,445	10,871	6,574	-	24,709	10,118
Coast Guard	1,079	719	138	222	1,098	476
Marine Corps	13,238	4,468	6,913	1,857	10,266	3,122
Navy	23,303	13,621	4,838	4,844	21,660	8,841

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, July 1, 1982 (Statistical Report 157, September 24, 1982).

Table 251.-- NATIONAL GUARD STRENGTH: JUNE 30, 1981

Category and island	Total	Air National Guard	Army National Guard
Authorized strength, Statewide	6,216	2,035	4,181
Assigned strength, Statewide	5,338	1,943	3,395
Hawaii	810	216	594
Maui	323	121	202
Molokai	37	-	37
Oahu	3,701	1,353	2,348
Kauai	467	253	214

Source: Hawaii State Department of Defense, Annual Report, Fiscal Year 1981, pp. 6, 10, and 28.

Table 252.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY: ANNUAL AVERAGES, 1970 TO 1981

Year	Total	Air Force	Army	Navy
1970	22,080	3,680	6,100	12,300
1971	21,520	3,430	6,020	12,070
1972	21,200	3,400	6,000	11,800
1973	20,600	3,300	6,050	11,250
1974	20,200	3,300	5,700	11,200
1975	19,700	3,300	5,300	11,100
1976	19,200	3,200	4,950	11,050
1977	19,000	3,050	4,750	11,200
1978	19,100	2,850	4,500	11,750
1979	18,850	2,750	4,250	11,850
1980	18,700	2,650	4,100	11,950
1981	19,400	2,600	4,300	12,500

Source: Hawaii State Department of Labor and Industrial Relations, State of Hawaii Labor Force Statistics for 1970 and 1971, Labor Force Data Book (March 1978), as revised May 1982, and records.

Table 253.-- DEFENSE EXPENDITURES: 1971 TO 1981

[In thousands of dollars.]

Year	All categories	Military payroll	Civilian payroll	Supplies, equipment, services
1971 1/	708,757	291,322	244,798	172,637
1972 1/	744,239	309,015	250,808	184,416
1973 1/	840,851	335,475	257,521	247,855
1974 1/	897,861	381,281	271,007	245,573
1975	982,779	396,413	281,955	304,411
1976	1,034,226	420,051	301,347	312,828
1977	1,086,561	432,754	325,778	328,029
1978	1,155,517	465,449	354,530	335,538
1979	1,221,784	497,840	372,596	351,348
1980	1,317,402	533,691	418,759	364,952
1981	1,449,328	612,761	450,684	385,883
SERVICE: 1981				
Air Force	158,282	79,404	29,727	49,151
Army	493,813	254,474	90,606	148,733
Navy and Marines	770,477	257,880	326,784	185,813
Coast Guard 2/ .	26,756	21,003	3,567	2,186

1/ Revised from Data Book 1981, table 235.

2/ Jan.-March based on corresponding quarter in previous year.

Source: Quarterly reports submitted by armed forces.

Table 254.-- MILITARY PRIME CONTRACT AWARDS OF $10,000 OR MORE, BY SERVICE: 1980 AND 1981

[In thousands of dollars. For fiscal years ended September 30. Data refer to net value of military procurement actions.]

Fiscal year	Total 1/	Army	Navy	Air Force	Defense logistics agency
1980	315,251	47,068	75,271	31,103	154,055
1981	590,671	156,837	143,951	30,716	250,113

1/ Net value of civil functions procurement actions ($159,000 in 1980 and $75,000 in 1981) not included.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Prime Contract Awards by State (annual).

Table 255.-- HOUSING UNITS OWNED BY THE ARMED FORCES: 1980 TO 1982

[As of April 1.]

Year	All services	Air Force	Army	Coast Guard	Navy and Marines
1980	19,354	2,975	7,186	315	8,878
1981	19,347	2,975	7,186	308	8,878
1982	19,326	2,957	7,177	315	8,877

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1981 (Statistical Report 148, July 15, 1981), tables 9 and 10; and Housing Unit Estimates for Hawaii, 1970-1982 (Statistical Report 156, July 28, 1982), table 9.

Table 256.-- VETERAN STATUS: 1980

Status	Number
Civilian persons 16 years and over	668,979
Veteran	104,374
Percent of civilian persons 16 years and over .	15.6
Male veteran	99,333
Percent of civilian males 16 years and over ...	31.1

Source: U.S. Bureau of the Census, *1980 Census of Population and Housing, Provisional Estimates of Social, Economic, and Housing Characteristics*, PHC80-S1-1 (March 1982), p. 15.

Table 257.-- MILITARY PERSONNEL RECEIVING RETIRED PAY: SEPTEMBER 30, 1981

Service	Number of personnel	Monthly amount 1/ (dollars)	
		Total	Per person
Dept. of Defense	9,156	9,261,603	1,012
Army	3,955	3,750,777	948
Navy	2,214	2,230,854	1,008
Marine Corps	608	671,973	1,105
Air Force	2,379	2,607,999	1,096

1/ Before deductions for withholding taxes and allotments, but after deductions for survivor benefits, dual compensation, etc.

Source: U.S. Department of Defense, Office of Actuary, Defense Manpower Data Center, *1981 DOD Statistical Report on the Military Retirement System* (1982), p. 14.

Section 11

LABOR FORCE, EMPLOYMENT, AND EARNINGS

This section presents statistics on the size and composition of the labor force, employment by sex, occupation, and industry, work disability, wage rates, payrolls, hours, turnover, industrial safety, unionization, and strikes.

The civilian labor force averaged 449,000 in 1981; of this total, 425,000 persons were employed and 24,000 were unemployed and seeking work. The civilian jobcount rose from 339,000 in 1971 to 445,000 a decade later. (The jobcount differs from employment because the latter counts multiple jobholders -- "moonlighters" -- only once.) The unemployment rate averaged 5.3 percent in 1981, with island levels ranging from 3.9 to 8.4 percent. In 1980, 57.7 percent of all females 16 years old and over were in the civilian labor force -- the fourth highest ratio in the nation. By occupation, one out of four civilian workers is classified as professional or managerial. Activities with especially large numbers of employees include government (89,000 in 1981), services (101,000), and retail trade (87,000). The average annual earnings of wage and salary workers under the Hawaii Employment Security Law reached $14,500 in 1981, almost twice the 1970 average. Average weekly hours in 1981 ranged from 31.4 (for retail trade) to 43.5 (for communications and utilities). Labor union membership was estimated at 113,000 in 1980. Work stoppages in 1981 involved 890 workers.

Analyzing labor force trends is greatly complicated by shifts in sources and estimating methods. Prior to 1970, the number of employed civilians was estimated from data on the number of jobs covered by the Hawaii State Employment Security Law; workers holding more than one job were accordingly counted more than once. From 1970 to 1975, the same source was used, but the totals were adjusted to exclude the double-counting thought to be present. Then, beginning in 1976, the labor force estimates were based primarily on the Current Population Survey, a relatively small household survey subject to considerable sampling variation. The 1970-1975 estimates were later revised for greater comparability with the 1976-1981 data.

Principal sources for the data on labor force, employment, hours, earnings, unions and strikes are the decennial reports of the U.S. Bureau of the Census, the same agency's Current Population Survey, various studies by the U.S. Bureau of Labor Statistics, monthly and annual tabulations by the Hawaii State Department of Labor and Industrial Relations, and annual surveys of pay rates by the Hawaii Employers Council. Historical Statistics of Hawaii, Section 4, includes figures for earlier years. Statistics for the nation as a whole are published in Section 13 of the Statistical Abstract of the United States: 1981.

Table 258.-- LABOR FORCE STATUS: 1980

Subject	Number
Persons 16 years and over	722,573
Labor force	490,748
Percent of persons 16 years and over	67.9
Civilian labor force	437,154
Employed	417,425
Unemployed	19,729
Percent of civilian labor force	4.5
Not in labor force	231,825
Female, 16 years and over	352,486
Labor force	203,525
Percent of female, 16 years and over	57.7
Civilian labor force	200,199
Employed	191,076
Unemployed	9,123
Percent of civilian labor force	4.6
Not in labor force	148,961
Female, 16 years and over	352,486
With own children under 6 years	60,882
In labor force	32,849
With own children 6 to 17 years only	65,392
In labor force	45,795

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Provisional Estimates of Social, Economic, and Housing Characteristics, PHC80-S1-1 (March 1982), p. 26.

Table 259.-- LABOR FORCE STATUS IN 1979: 1980

Subject	Number
Labor force status in 1979	
Male, 16 years and over, in labor force in 1979	303,014
Worked in 1979	298,874
50 to 52 weeks	207,227
40 to 49 weeks	37,786
1 to 39 weeks	53,861
Usually worked 35 or more hours per week	254,722
50 to 52 weeks	190,223
With unemployment in 1979	42,057
Mean weeks of unemployment	14.6
Female, 16 years and over, in labor force in 1979	226,569
Worked in 1979	221,920
50 to 52 weeks	123,988
40 to 49 weeks	32,647
1 to 39 weeks	65,285
Usually worked 35 or more hours per week	159,057
50 to 52 weeks	104,297
With unemployment in 1979	38,376
Mean weeks of unemployment	13.0
Persons, 16 years and over with unemployment in 1979	80,433
Unemployed 15 or more weeks	27,000
Workers in family in 1979	
Families	225,099
No workers	19,785
1 worker	65,013
2 or more workers	140,301

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Provisional Estimates of Social, Economic, and Housing Characteristics, PHC80-S1-1 (March 1982), p. 26.

Table 260.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE: ANNUAL AVERAGES, 1970 TO 1981

Year	Civilian labor force	Civilian employment	Unemployed	
			Number	Percent
1970	321,550	305,650	15,900	4.9
1971	336,800	313,450	23,350	6.9
1972	351,000	324,050	26,950	7.7
1973	364,600	338,350	26,250	7.2
1974	375,000	345,350	29,650	7.9
1975	382,950	351,100	31,850	8.3
1976 1/ .	409,000	369,000	40,000	9.8
1977 1/ .	419,000	388,000	31,000	7.4
1978 1/ .	417,000	385,000	32,000	7.7
1979 1/ .	420,000	394,000	26,000	6.2
1980 1/ .	438,000	417,000	21,000	4.8
1981	449,000	425,000	24,000	5.3

1/ Revised from 1981 edition, table 243, and not precisely comparable to estimates for 1975 and earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), table 1, as revised May 1982.

Table 261.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1970 TO 1981

[Data for 1976-1980 are preliminary revisions and not precisely comparable to estimates for earlier years.]

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
CIVILIAN LABOR FORCE							
1970	258,900	28,300	13,650	20,700	1,150	17,250	2,300
1971	270,900	30,200	14,200	21,500	1,150	18,150	2,250
1972	281,900	30,750	14,500	23,850	1,500	19,400	2,950
1973	292,650	32,100	15,000	24,850	1,450	20,400	2,950
1974	301,100	33,150	15,050	25,800	1,550	21,300	2,950
1975	304,200	34,600	16,300	27,800	1,600	23,200	3,000
1976	323,950	37,000	17,750	30,350	1,650	25,550	3,100
1977	330,500	37,850	18,550	32,150	1,700	27,200	3,250
1978	328,150	37,400	18,350	33,100	1,800	27,700	3,600
1979	330,150	37,250	18,500	34,100	1,750	28,650	3,700
1980	338,900	41,850	20,000	37,250	1,800	32,100	3,350
1981	346,200	43,350	20,600	38,850	1,750	33,650	3,450
CIVILIAN EMPLOYMENT							
1970	246,400	27,050	12,950	19,250	1,100	16,050	2,100
1971	252,350	28,150	13,300	19,650	1,000	16,700	1,950
1972	260,800	28,500	13,350	21,400	1,300	17,600	2,500
1973	272,600	29,500	13,850	22,450	1,350	18,650	2,450
1974	278,400	29,900	13,750	23,350	1,400	19,400	2,500
1975	280,050	31,150	14,800	25,050	1,400	21,100	2,550
1976	292,950	32,800	16,050	27,150	1,450	23,050	2,650
1977	306,500	34,350	17,350	29,800	1,600	25,300	2,900
1978	303,600	33,700	17,100	30,650	1,600	25,800	3,200
1979	310,300	34,250	17,450	32,000	1,650	27,050	3,300
1980	323,500	39,150	19,050	35,250	1,700	30,500	3,050
1981	329,100	39,950	19,400	36,550	1,650	31,750	3,150

Continued on next page.

Table 261.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1970 TO 1981 -- Con.

[Data for 1976-1980 are preliminary revisions and not precisely comparable to estimates for earlier years.]

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
UNEMPLOYED							
1970	12,500	1,250	700	1,450	50	1,200	200
1971	18,500	2,100	900	1,850	100	1,450	300
1972	21,150	2,250	1,150	2,450	150	1,800	500
1973	20,100	2,600	1,150	2,400	150	1,750	500
1974	22,700	3,250	1,300	2,450	150	1,850	450
1975	24,200	3,450	1,500	2,750	200	2,100	450
1976	30,950	4,200	1,650	3,200	200	2,500	450
1977	23,950	3,450	1,200	2,350	150	1,900	350
1978	24,550	3,750	1,250	2,450	200	1,900	400
1979	19,900	2,950	1,050	2,100	100	1,600	400
1980	15,400	2,700	950	2,000	100	1,600	300
1981	17,100	3,400	1,200	2,300	50	1,950	300
PERCENT UNEMPLOYED							
1970	4.8	4.4	5.2	7.0	3.4	7.0	8.6
1971	6.8	6.9	6.3	8.6	9.5	8.0	13.3
1972	7.5	7.4	7.8	10.3	10.8	9.3	16.1
1973	6.9	8.2	7.6	9.7	8.6	8.6	17.1
1974	7.5	9.8	8.5	9.5	9.1	8.8	14.5
1975	8.0	9.9	9.1	9.8	11.4	9.0	15.7
1976	9.6	11.3	9.4	10.5	13.1	9.8	14.5
1977	7.3	9.2	6.5	7.4	8.0	7.0	10.1
1978	7.5	10.0	6.8	7.5	10.7	6.8	10.8
1979	6.0	8.0	5.6	6.2	5.6	5.6	11.1
1980	4.5	6.4	4.6	5.3	5.3	4.9	9.2
1981	4.9	7.8	5.9	5.9	3.9	5.7	8.4

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), tables 2-8, as revised May 1982.

Table 262.-- CHARACTERISTICS OF THE INSURED UNEMPLOYED: ANNUAL AVERAGE, 1981

Subject	Number	Subject	Number
Total	11,600	Age:	
		Under 22 years	727
Race:		22 to 24 years	1,131
White	3,434	25 to 34 years	4,384
Black	104	35 to 44 years	2,368
Indian	-	45 to 54 years	1,503
Hispanic	116	55 to 64 years	1,311
Hawaiian	1,288	65 years and over	176
Chinese/Korean	592		
Filipino	2,030	Duration:	
Japanese	2,018	1 to 4 weeks	3,076
Other	1,786	5 to 14 weeks	4,880
Unknown	232	15 weeks and over	3,644
Sex:		Occupation:	
Male	7,289		
Female	4,311	Professional technical, managerial	1,648
		Clerical, sales	2,097
Industry:		Services	1,529
State government	936	Farm/fish/forestry	490
County government	130	Processing	464
Agriculture	404	Machine trades	309
Construction	3,484	Bench work	166
Manufacturing	1,083	Structural work	3,957
Food processing	596	Miscellaneous	938
Transportation, communication, utilities	805	Unknown	2
Wholesale/retail trades	2,077		
Finance, insurance, real estate	541		
Services	2,089		
Hotel	571		
Others and unknown	51		

Source: Hawaii State Department of Labor and Industrial Relations, Characteristics of the Insured Unemployed in Hawaii, 1981, pp. 4 and 5.

Table 263.-- ETHNIC STOCK OF EMPLOYED CIVILIANS, 16 YEARS OLD AND OVER, BY SEX, BY COUNTIES: 1980

Sex and ethnic stock	State total	Honolulu	Hawaii	Kauai	Maui
Total	372,482	284,824	36,236	17,337	34,085
Male	208,665	157,866	21,008	9,683	20,108
Caucasian	55,605	41,821	4,919	2,150	6,715
Japanese	62,150	48,231	6,450	2,959	4,510
Chinese	12,520	11,951	156	147	266
Filipino	26,066	18,362	2,496	2,119	3,090
Hawaiian	2,022	950	630	75	367
Korean	2,913	2,812	-	-	101
Negro	1,086	1,017	-	19	51
Puerto Rican	1,538	1,073	290	74	101
Samoan	1,440	1,414	26	-	-
Other unmixed 1/ ..	2,075	1,624	175	73	202
Part Hawaiian	29,137	19,688	4,433	1,333	3,683
Other mixed	12,110	8,922	1,433	733	1,021
Female	163,817	126,958	15,228	7,654	13,977
Caucasian	37,367	27,953	3,785	1,799	3,829
Japanese	56,563	45,679	4,930	2,107	3,847
Chinese	10,265	9,918	186	110	51
Filipino	18,410	13,453	1,258	1,640	2,058
Hawaiian	1,848	1,408	220	18	202
Korean	3,275	3,013	110	-	152
Negro	442	392	-	-	51
Puerto Rican	590	308	143	38	101
Samoan	700	700	-	-	-
Other unmixed 1/ ..	1,222	1,222	-	-	-
Part Hawaiian	23,676	16,085	3,608	1,192	2,790
Other mixed	9,460	6,828	988	749	895
Sample size 2/	5,853	3,140	979	942	792

1/ Includes not reported.

2/ Employed civilians 16 years old and over.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 264.-- JOBCOUNT, BY COUNTIES: ANNUAL AVERAGES, 1970 TO 1981

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/			
					Total	Maui	Lanai	Molokai
1970 ...	331,580	270,310	28,410	12,540	20,320	17,410	2,920	
1971 ...	339,070	276,260	29,000	12,960	20,840	18,090	2,730	
1972 ...	349,950	285,900	29,450	13,050	21,550	18,900	900	1,700
1973 ...	365,050	298,900	30,150	13,600	22,250	19,800	900	1,550
1974 ...	374,650	306,350	31,000	13,600	23,650	21,150	900	1,600
1975 ...	380,900	308,550	32,350	14,550	25,400	22,950	1,000	1,450
1976 ...	387,000	312,100	33,000	15,250	26,600	24,100	950	1,500
1977 ...	398,600	319,900	34,100	15,900	28,450	23,000	350	1,350
1978 ...	417,500	334,400	35,400	16,650	30,950	25,300	350	1,400
1979 ...	434,500	348,150	36,300	17,200	32,650	27,250	350	1,400
1980 2/.	444,800	355,200	37,150	18,150	34,450	29,300	300	1,400
1981 ...	444,850	354,200	37,300	18,200	35,250	29,550	300	1,450

1/ Jobcounts for agriculture (wage and salary, self-employed, unpaid family workers) and domestics not included in island breakdown for Maui County for 1977 and later years.

2/ Revised from 1981 edition, table 246.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), tables 9-56, as revised; Labor Force Statistics, Bull. No. 70-F and 72-F.

Table 265.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1972 TO 1981

Industry	1972	1973	1974	1975	1976
Nonagriculture, wage and salary	312,700	327,500	335,900	342,800	349,200
Contract construction	23,600	26,650	27,900	26,350	21,400
Manufacturing	24,900	23,800	22,700	23,650	23,400
Durable goods	4,550	4,600	4,700	4,800	4,550
Nondurable goods	20,350	19,250	18,000	18,850	18,800
Food processing	12,550	11,250	10,050	11,250	11,300
Sugar	4,450	4,150	3,700	4,450	4,350
Pineapple	4,250	3,350	2,550	2,800	2,850
Other	3,800	3,750	3,850	4,000	4,050
Textile, apparel	3,550	3,650	3,750	3,400	3,300
Printing, publishing	2,800	2,800	2,700	2,650	2,700
Other nondurables	1,450	1,500	1,500	1,550	1,550
Transp., commun., utilities ..	24,800	25,600	26,300	26,400	27,100
Transportation	14,800	16,100	17,200	17,450	18,200
Communication	7,350	6,800	6,400	6,400	6,400
Utilities	2,650	2,750	2,700	2,600	2,500
Trade	75,250	80,450	82,150	83,750	87,900
Wholesale	15,150	15,350	15,650	15,850	16,050
Retail	60,100	65,150	66,500	67,900	71,800
Finance, insur., real estate .	20,200	22,600	24,000	24,250	24,700
Services and miscellaneous ...	64,550	70,350	73,950	76,400	79,900
Hotels	17,600	18,950	19,450	19,950	20,900
Other services, misc.	47,000	51,400	54,500	56,500	59,000
Government	79,400	78,050	78,900	82,000	84,800
Federal	32,700	31,650	31,000	30,550	29,850
Air Force	3,400	3,300	3,300	3,300	3,200
Army	6,000	6,050	5,700	5,300	4,950
Navy	11,800	11,250	11,200	11,100	11,050
Other	11,500	11,050	10,800	10,850	10,600
State	35,300	35,250	35,950	38,700	41,350
Local	11,450	11,150	11,950	12,750	13,600
Agriculture, wage and salary ...	11,200	10,750	10,200	11,050	11,050
Sugar	5,550	5,550	4,450	5,200	5,050
Pineapple	2,950	2,600	2,300	2,300	2,200
Other	2,700	2,600	3,400	3,550	3,800
Nonagric., self-employed 1/	21,300	21,500	21,650	22,050	22,050
Agric., self-employed 2/	4,600	4,600	4,700	4,800	4,450
Labor disputes	150	700	2,200	200	250

Continued on next page.

Table 265.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1972 TO 1981 -- Con.

Industry	1977	1978	1979	1980	1981
Nonagriculture, wage and salary	359,400	377,300	394,100	404,700	404,650
Contract construction	19,750	20,650	23,400	23,950	22,300
Manufacturing	23,200	23,700	24,000	23,950	23,150
Durable goods	4,600	4,700	4,800	4,700	4,400
Nondurable goods	18,600	19,000	19,150	19,250	18,750
Food processing	11,250	11,700	11,650	11,800	11,250
Sugar	3,950	4,150	4,050	4,050	4,050
Pineapple	3,050	3,200	3,200	3,400	2,800
Other	4,250	4,300	4,400	4,350	4,350
Textile, apparel	3,250	3,250	3,300	3,050	2,950
Printing, publishing	2,750	2,850	2,950	3,100	3,100
Other nondurables	1,350	1,200	1,250	1,350	1,400
Transp., commun., utilities ..	28,200	28,800	30,500	31,200	31,350
Transportation	19,200	19,950	21,200	21,500	21,400
Communication	6,500	6,350	6,750	7,150	7,350
Utilities	2,500	2,500	2,500	2,550	2,600
Trade	92,200	97,900	102,900	105,250	105,550
Wholesale	16,600	17,200	18,300	18,600	18,500
Retail	75,550	80,700	84,650	86,700	87,050
Finance, insur., real estate .	25,650	28,850	31,500	32,850	32,150
Services and miscellaneous ...	84,750	90,300	95,350	98,450	101,100
Hotels	22,100	22,850	24,100	24,900	24,650
Other services, misc.	62,650	67,450	71,250	73,550	76,450
Government	85,700	87,050	86,500	89,050	89,000
Federal	29,300	29,350	29,700	30,000	30,350
Air Force	3,050	2,850	2,750	2,650	2,600
Army	4,750	4,500	4,250	4,100	4,300
Navy	11,200	11,750	11,850	11,950	12,500
Other	10,250	10,250	10,800	11,250	10,900
State	42,650	43,350	43,300	45,150	45,250
Local	13,800	14,350	13,500	13,900	13,350
Agriculture, wage and salary ...	11,300	11,550	10,800	10,550	11,450
Sugar	5,000	4,900	4,950	4,850	5,100
Pineapple	2,400	2,550	2,550	2,500	2,450
Other	3,900	4,100	3,300	3,200	3,950
Nonagric., self-employed 1/	23,000	23,800	24,350	24,550	24,350
Agric., self-employed 2/	4,400	4,700	4,550	4,500	4,350
Labor disputes	500	150	700	500	50

Footnotes and source follow next table.

Table 266.-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE, 1981

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	404,650	332,750	28,200	15,250	28,450
Contract construction	22,300	18,150	1,700	900	1,550
Manufacturing	23,150	16,850	2,900	1,300	2,100
Durable goods	4,400	3,850	300	(Z)	300
Nondurable goods	18,750	13,050	2,600	1,300	1,800
Food processing	11,250	6,250	2,250	1,200	1,600
Textile, apparel	2,950	2,900	(NS)	(NS)	(NS)
Printing, publishing	3,100	2,750	(NS)	(NS)	(NS)
Other nondurables	1,400	1,200	(NS)	(NS)	(NS)
Transp., commun., utilities .	31,350	26,200	1,850	1,600	1,750
Transportation	21,400	18,600	(NS)	(NS)	(NS)
Communication	7,350	5,750	(NS)	(NS)	(NS)
Utilities	2,600	1,850	(NS)	(NS)	(NS)
Trade	105,550	87,500	7,100	3,800	7,150
Wholesale	18,500	16,100	1,450	350	600
Retail	87,050	71,400	5,650	3,450	6,550
Finance, insur., real estate	32,150	27,550	1,200	950	2,400
Services and miscellaneous ..	101,100	81,050	7,000	3,900	9,200
Hotels	24,650	14,600	2,900	1,950	5,250
Other services, misc.	76,450	66,500	4,100	1,950	3,950
Government	89,000	75,400	6,500	2,750	4,300
Federal	30,350	29,250	600	250	250
Air Force	2,600	2,500	(NS)	(NS)	(NS)
Army	4,300	4,250	(NS)	(NS)	(NS)
Navy	12,500	12,450	(NS)	(NS)	(NS)
Other	10,900	10,050	(NS)	(NS)	(NS)
State	45,250	36,650	4,100	1,700	2,850
Local	13,350	9,550	1,800	850	1,200
Agriculture, wage and salary ..	11,450	2,750	3,750	1,550	3,450
Sugar	5,100	800	1,550	1,400	1,350
Pineapple	2,450	1,000	-	-	1,450
Other	3,950	950	2,200	150	650
Nonagric., self-employed 1/ ...	24,350	17,800	2,550	1,200	2,800
Agric., self-employed 2/	4,350	850	2,800	200	550
Labor disputes	50	50	(Z)	(Z)	(Z)

Z Fewer than 50.
NS Not shown separately.
1/ Includes unpaid family workers and domestics.
2/ Includes unpaid family workers.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), tables 9-14, 20, 26, 38, and 56 as revised May 1982.

Table 267.-- CLASS OF WORKER AND INDUSTRY: 1980

Subject	Civilian employment
Class of worker	
Employed persons 16 years and over	417,425
Private wage and salary workers	300,466
Federal Government workers	33,450
State Government workers	43,890
Local Government workers	14,572
Self-employed workers	23,388
Unpaid family workers	1,659
Industry	
Employed persons 16 years and over	417,425
Agriculture, forestry, fisheries, and mining	14,383
Construction	30,506
Manufacturing	32,750
Nondurable goods	20,843
Durable goods	11,907
Transportation	25,791
Communications and other public utilities	10,975
Wholesale trade	16,419
Retail trade	82,605
Finance, insurance, and real estate	32,686
Business and repair services	18,143
Personal, entertainment, and recreation services	37,148
Professional and related services	74,314
Health services	22,900
Educational services	32,645
Other professional and related services	18,769
Public administration	41,705

Source: U.S Bureau of the Census, 1980 Census of Population and Housing, Provisional Estimates of Social Economic, and Housing Characteristics, PHC80-S1-1 (March 1982), p. 26.

Table 268.-- OCCUPATION: 1980

Occupation	Civilian employment
Employed persons 16 years and over	417,425
Managerial and professional specialty occupations	97,883
Executive, administrative, and managerial occupations	49,010
Professional specialty occupations	48,873
Technical, sales, and administrative support occupations	133,697
Technicians and related support occupations	11,694
Sales Occupations	48,630
Administrative support occupations, including clerical	73,373
Service occupations	74,367
Private household occupations	1,499
Protective service occupations	7,924
Service occupations, except protective and household	64,944
Farming, forestry, and fishing occupations	13,690
Precision production, craft, and repair occupations	48,592
Operators, fabricators, and laborers	49,196
Machine operators, assemblers, and inspectors	14,737
Transportation and material moving occupations	16,130
Handlers, equipment cleaners, helpers, and laborers	18,329

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Provisional Estimates of Social, Economic, and Housing Characteristics, PHC80-S1-1 (March 1982), p. 26.

Table 269.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1971 TO 1981

Year	Number of employers, December	Average employment	Wages and salaries	
			Total ($1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1971	13,904	310,658	2,384,785	7,677
1972	14,563	321,352	2,569,893	7,997
1973	15,346	336,026	2,849,172	8,479
1974	15,914	342,683	3,114,073	9,087
1975	16.558	349,887	3,417,570	9,767
1976	17,130	356,217	3,685,818	10,347
1977	17,831	366,555	3,996,746	10,903
1978	18,847	383,451	4,459,594	11,630
1979	19,639	400,963	4,983,844	12,429
1980	19,988	412,281	5,585,489	13,548
1981	20,190	414,830	6,002,943	14,471
EXCLUDING GOVERNMENT				
1976	17,124	271,406	2,601,789	9,586
1977	17,825	280,836	2,816,521	10,029
1978	18,841	296,454	3,202,300	10,802
1979	19,633	314,447	3,689,161	11,732
1980	19,982	323,307	4,105,082	12,697
1981	20,184	325,897	4,423,850	13,574
NON-AGRICULTURAL 1/				
1976	16,567	260,297	2,493,750	9,580
1977	17,267	269,554	2,706,712	10,041
1978	18,431	285,313	3,083,421	10,807
1979	19,213	303,305	3,551,436	11,709
1980	19,597	311,808	3,956,617	12,689
1981	19,799	314,016	4,261,467	13,571

1/ Data for 1976 and 1977 exclude approximately 850 persons employed by condominium associations, classified as agricultural in 1976 and 1977 but non-agricultural thereafter.

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual) and records.

Table 270.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES OR ISLANDS: 1981

Island or county	Including government		Excluding government			
	Number of employers, Dec.	Average employment	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
State total ..	20,190	414,830	20,184	325,897	4,423,850	13,574
Oahu	15,532	336,645	15,529	261,299	3,603,487	13,791
Hawaii County	2,064	32,121	2,061	25,576	320,919	12,548
Maui County	1,729	29,970	1,726	25,689	333,409	12,979
Kauai County	871	16,094	868	13,334	166,034	12,452

Source: Hawaii State Department of Labor and Industrial Relations, 1981 Employment and Payrolls in Hawaii (September 1982).

Table 271.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1981

Industry	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
All industries	20,190	414,830	6,002,943	14,471
Government	6	88,933	1,579,094	17,756
Federal	1	30,364	690,700	22,747
State	1	45,214	672,239	14,868
County	4	13,355	216,154	16,185
Private	20,184	325,897	4,423,850	13,574
Agriculture, forestry, fisheries	385	11,881	162,383	13,667
Sugar	13	4,803	80,103	16,678
Pineapple	5	2,338	30,329	12,972
Other	367	4,740	51,951	10,960
Mining and contract construction	1,719	21,911	488,588	22,299
Manufacturing	774	23,369	362,146	15,497
Sugar mills	13	3,893	71,799	18,443
Pineapple canning	3	3,220	40,782	12,665
Other food processing	185	4,367	61,454	14,072
Other manufacturing	573	11,889	188,111	15,822
Transportation	833	21,888	415,248	18,972
Communications	82	7,394	156,729	21,197
Utilities	44	2,610	62,954	24,120
Wholesale trade: Durable	807	8,589	159,379	18,556
Non-durable	921	9,942	140,229	14,105
Retail trade	4,594	87,228	782,020	8,965
Eating and drinking places	1,511	34,911	222,499	6,373
Other retail trade	3,083	52,317	559,521	10,695
Finance, insurance, real estate	2,915	31,881	478,153	14,998
Services	7,057	98,687	1,212,589	12,287
Hotels, rooming houses, etc.	188	24,626	264,433	10,738
Medical and other health services	1,482	18,732	314,121	16,769
Other services	5,387	55,329	634,035	11,459
Nonclassifiable establishments	53	518	3,431	6,624

Source: Hawaii State Department of Labor and Industrial Relations, *1981 Employment and Payrolls in Hawaii* (September 1982).

Table 272.-- AVERAGE ANNUAL WAGE AND SALARY PAYMENTS PER WORKER, BY CLASS OF WORKER: 1970, 1980, AND 1981

Class of worker	1970	1980	1981	Percent change 1970-1981	Percent change 1980-1981
CURRENT DOLLARS					
Total	7,424	13,548	14,471	94.9	6.8
Federal	9,752	21,140	22,747	133.3	7.6
State	8,759	14,198	14,868	69.7	4.7
County	8,726	14,848	16,185	85.5	9.0
Private	6,849	12,697	13,574	98.2	6.9
CONSTANT (1970) DOLLARS					
Total	7,424	6,075	5,798	-21.9	-4.6
Federal	9,752	9,480	9,113	-6.6	-3.9
State	8,759	6,367	5,957	-32.0	-6.4
County	8,726	6,658	6,484	-25.7	-2.6
Private	6,849	5,694	5,438	-20.6	-4.5
Family budget 1/	12,776	28,488	31,893	149.6	12.0
Index (1970=100)	100.0	223.0	249.6	...	...

1/ Intermediate budget for an urban family of four persons on Oahu, as estimated by the U.S. Bureau of Labor Statistics. Includes consumption, gifts and contributions, social security and disability payments, and personal income taxes.

Source: Average wages from Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual). Family budgets from U.S. Bureau of Labor Statistics, annual releases.

Table 273.-- LABOR TURNOVER RATES IN MANUFACTURING: 1972 TO 1981

[Turnover per 100 wage and salary employees. Excludes pineapple canning.]

Year	Accessions			Separations		
	Total	New hires	Re-calls 1/	Total	Quits	Layoffs
1972	2.2	1.8	...	2.4	1.2	0.4
1973	2.5	2.1	...	2.4	1.4	0.3
1974	2.3	1.8	...	2.3	1.2	0.5
1975	2.2	1.6	...	2.2	1.0	0.6
1976	2.4	1.3	0.6	2.5	0.8	1.0
1977	2.5	1.5	0.6	2.4	0.9	0.7
1978	2.9	1.4	1.2	2.9	1.0	1.3
1979	3.2	1.8	1.0	3.4	1.2	1.4
1980	2.9	1.6	1.0	3.3	1.1	1.6
1981	2.3	1.2	0.8	2.5	0.7	1.2

1/ Not available before 1976.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), pp. 95-96, as revised May 1982.

Table 274.-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1970 TO 1981

Subject 1/	1970	1971	1972	1973	1974	1975
Average weekly earnings (dollars)						
Contract construction	216.84	223.50	243.54	257.04	274.78	296.00
Manufacturing	126.80	133.73	141.81	156.81	167.06	182.99
Food and kindred products ..	115.43	123.93	127.83	142.21	157.87	172.00
Communication and utilities ..	169.49	181.04	192.29	211.25	227.98	262.88
Trade 2/	95.99	100.87	104.94	113.90	120.96	129.03
Wholesale trade	126.16	133.73	144.78	156.11	169.22	181.06
Retail trade 2/	82.79	87.57	91.40	99.84	104.62	111.16
Finance	113.64	118.08	118.88	118.40	128.20	148.13
Hotels	77.92	77.43	80.35	88.13	95.99	104.65
Laundries	74.93	76.47	77.85	83.77	89.11	96.17
Average weekly hours						
Contract construction	39.0	37.5	37.7	37.8	37.9	37.9
Manufacturing	40.0	39.8	39.5	39.9	39.4	39.1
Food and kindred products ..	40.5	40.5	39.7	40.4	40.9	40.0
Communication and utilities ..	42.8	42.2	41.0	41.1	41.3	42.4
Trade 2/	33.8	33.4	33.0	33.5	33.6	33.0
Wholesale trade	38.7	38.1	38.0	37.8	38.9	37.8
Retail trade 2/	31.6	31.5	31.3	32.0	31.8	31.4
Finance	...	...	...	...	...	...
Hotels	30.8	29.0	27.9	28.8	29.0	29.9
Laundries	36.2	35.9	34.6	35.8	35.5	35.1
Average hourly earnings (dollars)						
Contract construction	5.56	5.96	6.46	6.80	7.25	7.81
Manufacturing	3.17	3.36	3.59	3.93	4.24	4.68
Food and kindred products ..	2.85	3.06	3.22	3.52	3.86	4.30
Communication and utilities ..	3.96	4.29	4.69	5.14	5.52	6.20
Trade 2/	2.84	3.02	3.18	3.40	3.60	3.91
Wholesale trade	3.26	3.51	3.81	4.13	4.35	4.79
Retail trade 2/	2.62	2.78	2.92	3.12	3.29	3.54
Finance	...	...	...	...	...	...
Hotels	2.53	2.67	2.88	3.06	3.31	3.50
Laundries	2.07	2.13	2.25	2.34	2.51	2.74

Continued on next page.

Table 274.-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1970 TO 1981 -- Con.

Subject 1/	1976	1977	1978	1979	1980	1981
Average weekly earnings (dollars)						
Contract construction	318.56	352.36	385.40	397.80	428.97	475.31
Manufacturing	200.46	209.38	227.74	244.35	258.17	289.90
Food and kindred products ..	189.12	188.33	204.72	217.74	238.26	274.31
Communication and utilities ..	288.58	311.28	352.54	378.35	421.16	433.70
Trade 2/	138.60	147.74	158.07	173.01	184.82	198.99
Wholesale trade	196.60	207.59	219.84	238.23	252.50	275.88
Retail trade 2/	119.25	128.93	138.47	151.69	162.30	174.27
Finance	164.10	164.11	166.48	174.83	185.58	212.64
Hotels	128.61	137.38	155.20	166.52	173.72	193.64
Laundries	105.95	110.66	129.60	144.77	151.25	161.55
Average weekly hours						
Contract construction	36.2	35.7	36.6	36.0	36.2	36.2
Manufacturing	39.0	38.0	38.6	38.3	37.8	38.5
Food and kindred products ..	39.4	38.2	38.7	38.0	37.7	39.3
Communication and utilities ..	42.5	42.7	44.4	44.2	44.9	43.5
Trade 2/	33.0	33.2	33.0	33.4	33.3	33.0
Wholesale trade	38.1	38.3	38.3	38.3	38.2	38.0
Retail trade 2/	31.3	31.6	31.4	31.8	31.7	31.4
Finance	...	...	...	...	...	...
Hotels	31.6	31.8	32.4	31.9	31.3	32.6
Laundries	35.2	34.8	36.1	37.8	36.8	36.8
Average hourly earnings (dollars)						
Contract construction	8.80	9.87	10.53	11.05	11.85	13.13
Manufacturing	5.14	5.51	5.90	6.38	6.83	7.53
Food and kindred products ..	4.80	4.93	5.29	5.73	6.32	6.98
Communication and utilities ..	6.79	7.29	7.94	8.56	9.38	9.97
Trade 2/	4.20	4.45	4.79	5.18	5.55	6.03
Wholesale trade	5.16	5.42	5.74	6.22	6.61	7.26
Retail trade 2/	3.81	4.08	4.41	4.77	5.12	5.55
Finance	...	...	...	...	...	...
Hotels	4.07	4.32	4.79	5.22	5.55	5.94
Laundries	3.01	3.18	3.59	3.83	4.11	4.39

1/ Data through 1971 based on 1967 Standard Industrial Classification (SIC) code; beginning 1972, based on 1972 SIC.

2/ Excludes eating and drinking establishments.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised May 1982.

Table 275.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1976 AND 1981

[In dollars.]

Job classification	State average		Islands: 1981			
	1976	1981	Kauai	Oahu	Maui	Hawaii
MONTHLY RATES						
Junior typist	566	839	...	837	...	...
Clerk-stenographer	704	1,085	...	1,067	...	...
Secretary	772	1,128	1,187	1,122	1,205	1,133
Data entry operator	677	967	1,006	958	...	1,051
Bookkeeper, full-charge	930	1,395	...	1,363	1,471	...
Engineering drafting technician	984	1,470	...	1,359	...	...
Hospital attendant	597	847	861	865	785	773
Staff nurse	994	1,492	1,471	1,492	...	...
HOURLY RATES						
Housekeeper	3.416	4.808	4.696	4.855	4.756	4.674
Cook, general	5.105	7.162	7.325	7.080	7.280	7.547
Waiter/waitress	2.409	3.312	3.240	3.326	3.277	3.260
Laborer (light)	3.870	6.008	6.140	5.978	6.082	5.675
Carpenter (maintenance)	5.856	8.521	8.463	8.665	8.440	8.017
Electrician (maintenance) ...	6.832	9.407	8.072	9.856	9.192	9.125
Automotive mechanic	6.112	9.077	8.515	9.814	8.625	8.472
Truck driver (1 1/2-5 tons) .	4.854	7.162	6.767	7.456	6.846	6.935

Source: Hawaii Employers Council, Pay Rates in Hawaii (annual).

Table 276.-- MINIMUM WAGE CHRONOLOGY: 1942 TO 1982

[In dollars.]

Effective date	Oahu	Other islands
1942: April 1 1/	0.25	0.20
1943: July 1	0.30	0.25
1945: July 1	0.40	0.40
1953: July 1	0.65	0.55
1955: July 1	0.75	0.65
1957: July 1	0.90	0.85
1958: July 1	1.00	1.00
1962: July 1	1.15	1.15
1964: January 1	1.25	1.25
1969: July 1	1.40	1.40
1970: July 1	1.60	1.60
1974: July 1	2.00	2.00
1975: July 1	2.40	2.40
1978: July 1	2.65	2.65
1979: July 1	2.90	2.90
1980: July 1	3.10	3.10
1981: July 1 2/	3.35	3.35

1/ Inception of minimum wage law.

2/ Currently in effect as of July 1, 1982.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 277.-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1974 TO 1981

Calendar year	Island workers on the Mainland 1/		Mainland workers in Hawaii 2/		Ratio 3/
	Total 4/	Regular only	Total 4/	Regular only	
1974	5,924	5,924	5/ 7,284	6,988	118
1975	9,425	7,607	5/ 9,478	8,785	115
1976	9,934	7,458	8,994	8,334	112
1977	7,090	5,846	8,846	8,154	139
1978	5/ 4,495	4,313	6,533	6,261	145
1979 6/	4,272	4,272	5/ 5,285	5,250	123
1980	5/ 5,633	5/ 5,211	5/ 5,196	5/ 4,956	5/ 95
1981	5,619	5,485	4,552	4,396	80

1/ Interstate liable initial claims (UI & Supp.), excluding UCFE & Supp. and UCX. Covers Hawaii workers seeking work and filing for benefits on the Mainland. Since July 1980, data have included Federal civilian employees and ex-servicemen.

2/ Interstate agent initial claims (UI & Supp.), excluding UCFE & Supp. and UCX. Covers Mainland workers filing claims for unemployment insurance and registered for work with the Hawaii State Employment Service.

3/ Interstate agent initial claims (regular only) as a percent of inter-state liable initial claims (regular only). Ratios under 100 suggest a net out-migration of workers.

4/ Regular and extended claims.

5/ Corrected from Data Book 1981, table 259.

6/ The method of counting liable and agent initial claims was revised effective October 1979. Data for 1979 and later years are accordingly not directly comparable with figures for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (May 1981), p. 29 and p. 50; and records.

Table 278.-- DISABILITY CHARACTERISTICS: 1980

Kind of disability	Number
WORK DISABILITY STATUS	
Noninstitutional persons 16 to 64 years	640,779
With a work disability	38,530
Not in labor force	22,076
Prevented from working	16,732
PUBLIC TRANSPORTATION DISABILITY STATUS	
Noninstitutional persons 16 to 64 years	640,779
With a public transportation disability	8,207
Noninstitutional persons 65 years and over ..	72,626
With a public transportation disability	8,219

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Provisional Estimates of Social, Economic, and Housing Characteristics, PHC80-S1-1 (March 1982), p.15.

Table 279.-- INDUSTRIAL ACCIDENTS, DEATHS, AND INSURANCE PAYMENTS: 1971 TO 1981

Year	Accidents		Deaths		Insurance payments ($1,000)
	Number	Rate 1/	Number	Rate 2/	
1971	34,561	61.62	21	2.6	16,665
1972	34,901	59.93	45	5.4	18,773
1973	36,277	59.06	61	7.2	19,548
1974	37,646	60.47	72	8.3	18,341
1975	40,435	62.53	59	6.7	22,503
1976	38,721	58.60	39	4.3	27,760
1977	37,393	54.76	50	5.5	23,652
1978	38,869	54.10	48	5.2	32,847
1979	43,057	57.01	49	5.2	42,573
1980	47,725	62.01	49	5.1	55,331
1981	44,320	57.50	36	3.7	66,950

1/ Accidental injuries per 1,000,000 estimated non-federal wage and salary employee hours.

2/ Accidental deaths per 100,000 total resident population, July 1, from DPED Statistical Report 147 (for 1971-1979) and U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 911 (for 1980 and 1981).

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 280.-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF NONGOVERNMENTAL WORKERS: 1979 AND 1980

[Data exclude agricultural employers with fewer than 11 employees.]

Subject	1979 total	1980		
		Total	Injuries	Illnesses
Recordable cases	27,013	29,240	28,762	478
Lost workday cases	14,986	16,029	15,829	200
Lost workdays	205,858	223,610	220,536	3,074
Per lost workday case	14	14	14	15
Nonfatal cases without lost workdays.	12,001	13,168	12,901	267
Incidence per 100 full-time workers .	11.0	11.5	11.4	0.2
Agriculture	18.6	20.0	19.5	0.5
Mining	8.7	3.7	3.5	0.2
Construction	29.4	30.7	30.4	0.3
Manufacturing	16.1	15.8	15.4	0.3
Transportation, public utilities ..	12.5	13.6	13.4	0.2
Wholesale and retail trade	9.0	9.1	9.0	0.1
Finance, insurance, real estate ...	3.2	3.5	3.5	(Z)
Services	8.1	8.5	8.3	0.2

Z Less than 0.05.

Source: Hawaii State Department of Labor and Industrial Relations, 1980 Occupational Injuries and Illnesses Survey, State of Hawaii.

Table 281.-- MEMBERSHIP IN LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1964 TO 1980

[Numbers in thousands]

Year	Total unions and associations		Labor unions				Employee associations 1/
				Affiliated with AFL-CIO	Unaffiliated		
	Number	Percent 2/	Total		National	Local unions	
1964 ..	(NA)	(NA)	49	24	24	(NA)	(NA)
1966 ..	(NA)	(NA)	62	31	25	7	(NA)
1968 ..	77	30.2	70	36	27	7	7
1970 ..	89	30.3	82	45	30	7	8
1972 ..	123	39.9	115	78	30	7	9
1974 ..	129	38.7	121	84	29	7	8
1976 ..	140	40.1	129	95	33	(Z)	12
1978 ..	134	35.8	120	94	27	(Z)	14
1980 3/	113	28.0	(NA)	(NA)	(NA)	(NA)	(NA)

Z Fewer than 500.

NA Not available.

1/ Professional and State employee associations.

2/ Total union and association membership as a percent of nonagricultural employment. Union membership as a percent of nonagricultural employment was: 1964, 23.6; 1966, 26.6; 1970, 30.3; and 1974, 38.7.

3/ Preliminary. Not tabulated separately for unions and employee associations.

Source: U.S. Department of Labor, Bureau of Labor Statistics, data supplied February 25, 1980 and March 12, 1982.

Table 282.-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS: 1973 TO 1981

[As of December 31.]

Year	Total	State employees	County employees
1973 1/	35,293	26,453	8,840
1974 2/	37,005	26,904	10,101
1975	38,778	28,791	9,987
1976	39,738	29,816	9,922
1977	40,190	30,083	10,107
1978	40,760	30,360	10,400
1979	40,026	30,123	9,903
1980	40,511	30,609	9,902
1981	41,132	31,184	9,948
Collective bargaining agent (union): 1981			
HGEA	16,584	12,925	3,659
UPW	9,214	6,221	2,993
HSTA	9,086	9,086	-
UHPA (UH faculty)	2,810	2,810	-
SHOPO (police officers)	1,988	-	1,988
HFFA (firefighters)	1,450	142	1,308

1/ As of February 1, 1974 for City and County of Honolulu; as of January 15, 1974 for Hawaii County; as of January 23, 1974 for Kauai County.

2/ As of January 15, 1975 for the counties.

Source: Hawaii Public Employment Relations Board, HPERB Informational Bulletin, No. 6, 8, 10, 12, 13, 14, 15, 17, and 19.

Table 283.-- WORK STOPPAGES: 1960 TO 1981

[Estimated by U.S. Bureau of Labor Statistics.]

Year	Number of stoppages begun in year	Workers involved 1/	Man-days idle during year	Percent of estimated nonagricultural working time
1960	32	5,000	16,000	(NA)
1961	33	22,000	47,000	(NA)
1962	34	4,000	71,000	0.19
1963	27	23,000	176,000	0.47
1964	26	3,000	8,000	0.02
1965	24	8,000	45,000	0.11
1966	28	5,000	44,000	0.10
1967	40	11,000	87,000	0.20
1968	14	8,000	252,000	0.32
1969	26	18,000	205,000	0.03
1970	22	6,800	152,700	0.26
1971	21	3,700	32,200	0.05
1972	21	9,300	73,700	0.12
1973	11	9,600	97,100	0.12
1974	24	17,900	462,700	0.55
1975	13	1,900	32,400	0.04
1976	20	3,000	35,300	0.04
1977	8	14,700	666,000	0.74
1978	18	12,400	99,700	0.11
1979	12	11,900	274,800	0.27
1980	9	6,900	138,500	0.14
1981 2/	7	700	14,000	0.01

NA Not available.

1/ Workers counted more than once if involved in more than one stoppage during year.

2/ Mean duration per worker involved was 26.8 days.

Source: U.S. Bureau of Labor Statistics, Analysis of Work Stoppages, 1980 (March 1982) and information provided June 30, 1982.

Table 284.-- WORK STOPPAGES: 1977 TO 1981

[As estimated by the Hawaii State Department of Labor and Industrial Relations. Data exclude stoppages lasting less than one full shift (8 hours) and stoppages affecting fewer than 6 workers. These data are not comparable to similar Federal statistics due to definitional and timing differences.]

Year	Number of stoppages 1/	Workers involved 1/	Man-days lost 2/
1977	12	9,670	206,795
1978	14	1,774	33,990
1979	10	10,380	229,880
1980	9	6,886	138,490
1981	9	890	8,650

1/ Stoppages carrying over from previous year are counted in both years.

2/ Partly estimated.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, records.

Section 12

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on two different aspects of income and expenditures, one relating to the State income and product system and the other to the distribution of income to families, households and individuals. Specifically, information is given on gross state product, industrial income, personal income, family and household income, poverty, personal wealth, and family expenditures. Data on wage rates, salaries, and earnings appear in Sections 3, 8, 11, and 22; on industrial payrolls, in Sections 11, 15, 20, 22, and 23; on the family income of visitors, in Section 7; on retirement payments and public assistance, in Sections 9 and 10; on taxable income, in Section 8.

Gross state product in 1980 amounted to approximately $11.5 billion, almost triple the 1970 total. The major sources of outside income to Hawaii in 1981 were defense expenditures ($1.45 billion), pineapple production ($218 million), sugar production ($328 million), and visitor expenditures ($3.2 billion). Personal income in 1981 was $10.8 billion, compared with $3.8 billion only ten years earlier, and per capita personal income was $11,036, more than twice the 1971 level. The per capita figure for Hawaii exceeded the national average by 5 percent, and thus failed to compensate for the Islands' much higher cost of living. The median annual income of families, based on data for 1979, was $23,066; for unrelated individuals, the median was $7,026. The official poverty threshold for a 4-person nonfarm family in Hawaii was set in April 1982 at $10,700. The most recent family expenditure survey, taken in 1972 and 1973, reported that the largest items in the family budget on Oahu were housing (accounting for 33.8 percent of spending for current consumption), food (20.4 percent) and transportation (19.1 percent).

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Department of Health and Human Services, Internal Revenue Service, Hawaii State Department of Agriculture, Hawaii State Department of Planning and Economic Development, and Hawaii Visitors Bureau. Sections 6 and 7 of Historical Statistics of Hawaii present data for earlier years. Comparable data for the country as a whole are given in Statistical Abstract of the United States: 1981, Section 14.

Table 285.-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1971 TO 1981

[In millions of dollars.]

Year	Total for four major industries	Value of production		Defense expenditures	Visitor expenditures 1/
		Raw sugar and molasses 2/	Fresh and processed pineapple		
1971 ...	1,758	202.9	141.4	708.8	705
1972 ...	1,914	184.7	145.4	744.2	840
1973 ...	2,226	222.2	142.4	840.9	1,020
1974 ...	2,927	676.6	127.1	897.9	1,225
1975 ...	2,846	366.1	136.7	982.8	1,360
1976 ...	3,076	257.0	144.5	1,034.2	1,640
1977 ...	3,320	226.8	161.6	1,086.6	1,845
1978 ...	3,750	285.2	162.8	1,155.5	2,146
1979 ...	4,311	345.7	206.4	1,221.8	2,537
1980 ...	5,013	594.1	226.5	1,317.4	2,875
1981 ...	5,195	327.9	217.6	1,449.3	3,200

1/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews.

2/ Excludes government sugar support payments.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual) and records; data supplied to DPED by armed forces; Hawaii Visitors Bureau, 1981 Annual Research Report, table 1.

Table 286.-- GROSS STATE PRODUCT AND PER CAPITA GROSS STATE PRODUCT: 1958 TO 1980

Year	Gross state product (millions of dollars)		Per capita gross state product (dollars)	
	Current dollars	1972 dollars	Current dollars	1972 dollars
1958	1,398.0	2,193.8	2,309	3,624
1959	1,547.2	2,294.6	2,487	3,688
1960	1,762.7	2,560.0	2,748	3,991
1961	1,858.1	2,646.2	2,821	4,017
1962	1,949.8	2,712.9	2,853	3,969
1963	2,057.0	2,732.1	3,015	4,005
1964	2,259.6	3,010.2	3,229	4,301
1965	2,480.2	3,302.0	3,524	4,692
1966	2,759.2	3,548.5	3,885	4,996
1967	3,019.1	3,762.6	4,179	5,208
1968	3,322.0	3,943.0	4,523	5,368
1969	3,727.6	4,207.6	4,969	5,609
1970	4,189.5	4,508.4	5,399	5,810
1971	4,529.3	4,671.4	5,655	5,832
1972	5,038.3	5,038.3	6,085	6,085
1973	5,783.4	5,691.0	6,796	6,687
1974	6,401.2	5,792.1	7,383	6,681
1975	7,022.8	6,055.2	7,994	6,850
1976	7,557.0	6,314.9	8,378	7,001
1977	8,410.3	6,798.9	9,182	7,422
1978	9,379.5	6,931.2	10,096	7,461
1979	10,706.4	7,248.5	11,270	7,630
1980	11,467.1	7,003.6	11,827	7,223

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1980 (March 1982), table 1-2, pp. 20-21.

Table 287.-- PERSONAL INCOME AND ITS DISPOSITION: 1978 TO 1980

[In millions of current dollars.]

Item	1978	1979	1980
Personal income	7,727.1	8,673.1	9,774.9
Wage and salary disbursements	5,351.7	5,907.8	6,572.6
Other labor income	354.2	407.5	474.4
Proprietors' income	423.5	515.0	520.9
Rental income of persons	113.9	118.4	124.8
Dividends	155.6	176.2	197.6
Personal interest income	744.7	919.1	1,124.0
Net interest	639.7	835.7	1,028.5
Government interest, net	-26.1	-58.0	-71.0
State and local (includes state retirement fund)	-32.3	-64.5	-77.5
Federal	6.2	6.5	6.5
Interest paid by consumers to business	131.1	141.4	166.5
Transfer payments to persons	933.8	1,034.7	1,204.2
Government	896.8	944.6	1,159.8
State and local	192.6	203.6	222.4
Federal	704.2	791.0	937.4
Business	37.0	40.1	44.4
Less: Personal contributions for social insurance	350.3	405.6	443.7
State and local government programs	57.7	61.5	67.0
Federal government programs	292.6	344.1	376.7
Disposition of personal income			
Less: Personal tax and non-tax payments	890.3	1,033.7	1,125.9
State and local	446.6	502.5	533.5
Federal	443.6	531.2	592.4
Equals: Disposable personal income	6,836.8	7,639.4	8,648.9
Less: Personal outlays	5,952.4	6,791.4	7,925.2
Personal consumption expenditures	5,797.4	6,621.8	7,723.7
Interest paid by consumers to business	131.1	141.4	166.5
Unilateral transfer payments to persons, net	23.9	28.2	35.0
Equals: Personal saving	884.4	848.0	723.8

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1980 (March 1982), table 2-1, pp. 30-31.

Table 288.-- EXPENDITURES ON GROSS STATE PRODUCT: 1978 TO 1980

[In millions of current dollars.]

Item	1978	1979	1980
Gross state product	9,379.5	10,706.4	11,467.1
Personal consumption expenditures	5,797.4	6,621.8	7,723.7
Food, alcoholic beverages and tobacco	1,866.0	2,035.1	2,466.0
Clothing, accessories and jewelry	627.2	674.7	725.9
Personal care	87.2	93.3	102.0
Housing	1,820.2	2,378.4	2,747.5
Household operation	753.1	815.0	893.7
Medical care	634.2	688.8	746.4
Personal business	420.2	551.5	763.2
Transportation	761.3	879.4	996.6
Recreation	516.7	531.7	576.8
Private education and research	59.9	67.5	76.3
Religious and welfare activities	75.1	83.6	97.7
Foreign travel and other, net	-1,828.7	-2,179.2	-2,468.5
Gross private domestic investment	1,329.0	1,698.9	2,039.9
Fixed investment	1,207.7	1,543.2	1,859.1
Nonresidential	857.8	1,047.2	1,311.9
Structures	352.6	457.4	676.3
Producers' durable equipment	505.2	589.8	635.6
Residential	349.9	496.0	547.2
Change in business inventories	121.3	155.7	180.8
Government purchases of goods and services	3,255.6	3,400.4	3,593.0
State and local	1,608.5	1,702.3	1,768.4
Compensation of employees	797.1	854.3	884.1
Other current expenditures	502.2	520.2	529.7
Equipment	23.6	26.8	27.5
Construction	271.3	300.9	327.1
Federal	1,647.1	1,698.1	1,824.7
Defense	1,530.5	1,580.4	1,704.6
Non-defense	116.6	117.8	120.0
Net exports	-1,542.3	-1,600.0	-2,059.1
Exports	3,741.3	4,518.3	5,127.9
Commodities	827.7	971.3	1,258.7
Services	956.2	998.3	981.0
Visitor and crew expenditures	2,157.4	2,548.6	2,888.2
Less: Imports	5,283.6	6,118.3	7,187.0
Commodities	3,861.3	4,515.9	5,381.3
Services	1,093.6	1,231.0	1,386.0
Out-of-state expenditures of Hawaii residents	328.7	371.4	419.7
Omissions and discrepancy	539.7	585.3	169.7

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1980 (March 1982), table 1-3, pp. 22-23, and table 2-1, pp. 30-31.

Table 289.-- EXPENDITURES ON GROSS STATE PRODUCT (1972 DOLLARS): 1978 TO 1980

[In millions of 1972 dollars.]

Item	1978	1979	1980
Gross state product	6,931.2	7,248.5	7,003.6
Personal consumption expenditures	3,883.6	4,035.9	4,225.7
Food, alcoholic beverages and tobacco	1,153.7	1,131.3	1,264.7
Clothing, accessories and jewelry	480.2	485.6	493.9
Personal care	55.3	54.5	53.7
Housing	1,383.1	1,580.3	1,618.1
Household operation	504.4	507.8	500.3
Medical care	366.0	367.9	366.8
Personal business	260.2	315.5	395.9
Transportation	567.1	592.2	546.9
Recreation	352.4	343.7	346.9
Private education and research	40.0	40.5	41.0
Religious and welfare activities	50.1	50.2	52.5
Foreign travel and other, net	-1,329.0	-1,433.7	-1,454.9
Gross private domestic investment	818.1	945.9	1,031.5
Fixed investment	737.2	852.4	934.3
Nonresidential	540.9	605.3	683.9
Structures	204.3	236.0	310.5
Producers' durable equipment	336.6	369.3	373.4
Residential	196.3	247.1	250.4
Change in business inventories	80.9	93.5	97.2
Government purchases of goods and services	2,127.0	2,000.8	1,896.5
State and local	1,042.3	994.0	926.5
Compensation of employees	541.3	512.8	475.1
Other current expenditures	335.0	312.2	284.6
Equipment	15.7	16.8	16.1
Construction	150.2	152.1	150.7
Federal	1,084.7	1,006.8	970.0
Defense	1,008.1	937.1	906.2
Non-defense	294.6	270.4	266.6
Net exports	-257.5	-85.4	-241.2
Exports	2,571.3	2,808.3	2,779.5
Commodities	527.0	561.3	584.4
Services	504.8	599.2	527.1
Visitor and crew expenditures	1,539.8	1,647.8	1,668.0
Less: Imports	2,828.8	2,893.7	3,020.7
Commodities	1,960.8	2,006.5	2,118.5
Services	657.2	673.0	689.2
Out-of-state expenditures of Hawaii residents	210.8	214.1	213.0
Omissions and discrepancy	360.1	351.3	91.2

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1980 (March 1982), table 1-4, pp. 24-25, and worksheets.

Table 290.-- CHARGES AGAINST GROSS STATE PRODUCT: 1978 TO 1980

[In millions of current dollars.]

Item	1978	1979	1980
Compensation of employees	6,150.9	6,804.6	7,558.3
Wage and salary disbursements	5,351.7	5,907.8	6,572.6
Supplements to wages and salaries	799.1	896.8	985.7
Employer contributions for social insurance	444.9	489.4	511.2
State and local government programs	81.6	81.6	84.5
Federal government programs	363.3	407.7	426.7
Other labor income	354.2	407.5	474.4
Proprietors' income	423.5	515.0	520.9
Rental income of persons	113.9	118.4	124.8
Corporate profits before tax	614.3	826.6	480.0
Profits tax	157.1	206.0	219.4
State and local tax	28.1	37.3	42.4
Federal tax	129.1	168.7	176.9
Profits after tax	457.2	620.6	260.6
Dividends	155.6	176.2	197.6
Undistributed profits	301.6	444.3	63.1
Net interest	639.7	835.7	1,028.5
Personal interest income	744.7	919.1	1,124.0
Less: Government interest, net	-26.1	-58.0	-71.0
State and local (includes state retirement fund)	-32.3	-64.5	-77.5
Federal	6.2	6.5	6.5
Less: Interest paid by consumers to business	131.1	141.4	166.5
Net state income	7,942.3	9,100.4	9,712.5
Business transfer payments	37.0	40.1	44.4
Indirect business tax and non-tax, state and local	718.2	822.4	876.0
Less: Subsidies less current surplus of state and local government enterprises	-11.8	-14.5	-15.7
Indirect business tax and non-tax, Federal	50.5	51.6	51.7
Less: Subsidies less current surplus of Federal government enterprises	-74.5	-75.9	-89.4
Net state product	8,834.4	10,104.8	10,789.7
Capital consumption allowances	545.1	601.6	677.5
Gross state product	9,379.5	10,706.4	11,467.1

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1980 (March 1982), table 1-2, pp. 20-21, and tables 2-1, pp. 30-31.

Table 291.-- TOTAL AND PER CAPITA PERSONAL INCOME AND DISPOSABLE PERSONAL INCOME: 1970 TO 1981

Year	Personal income (millions of dollars)		Per capita personal income (dollars)		Per capita personal income as percent of U.S. average	
	Total	Disposable	Total	Disposable	Total	Disposable
1970	3,566	2,974	4,674	3,899	118	115
1971	3,823	3,235	4,830	4,087	116	113
1972	4,178	3,477	5,107	4,250	113	111
1973	4,650	3,885	5,524	4,615	110	107
1974	5,298	4,452	6,174	5,188	113	111
1975	5,785	5,000	6,612	5,714	113	113
1976	6,223	5,332	6,973	5,975	110	109
1977	6,975	5,961	7,617	6,509	109	109
1978	7,782	6,638	8,379	7,147	108	108
1979	8,719	7,402	9,178	7,791	106	106
1980	9,862	8,385	10,196	8,669	108	108
1981	10,823	9,152	11,036	9,333	105	106

Source: U.S. Department of Commerce, Bureau of Economic Analysis, microfiche dated August 1982.

Table 292.-- PERSONAL INCOME BY MAJOR SOURCES: 1976 TO 1981

[In millions of dollars.]

Item	1976	1977	1978	1979	1980	1981
Labor and proprietors income						
By type:						
Wage and salary disbursements ..	4,289	4,799	5,340	5,911	6,599	7,080
Other labor income	269	314	363	397	460	498
Proprietors income	293	351	390	457	471	478
Farm	27	38	40	42	39	45
Nonfarm	265	313	350	414	432	433
By industry·						
Farm	147	157	167	189	222	226
Nonfarm	4,704	5,307	5,926	6,575	7,309	7,830
Private	3,104	3,422	3,886	4,464	4,949	5,293
Government and govt. enterprises	1,600	1,886	2,040	2,111	2,360	2,536
Federal, civilian	496	512	565	599	663	707
Federal military	490	680	726	747	818	903
State and local	614	694	749	765	879	927
Derivation of personal income						
Labor and proprietors income	4,850	5,464	6,093	6,765	7,531	8,056
Less: Personal contributions for social insurance	280	311	350	405	452	525
Net labor and proprietors income .	4,570	5,153	5,742	6,360	7,079	7,530
Plus: Dividends, interest, and rent	828	946	1,103	1,323	1,571	1,901
Plus: Transfer payments	825	877	937	1,036	1,212	1,391
Personal income	6,223	6,975	7,782	8,719	9,862	10,823

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated August 1982.

Table 293.-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTIES: 1969 TO 1980

Year	State total	City and County of Honolulu	Hawaii	Kauai	Maui
Total: 2/					
1969	3,114	2,633	217	104	161
1970	3,566	3,011	258	113	184
1971	3,823	3,214	285	122	202
1972	4,178	3,522	309	129	218
1973	4,650	3,915	341	146	248
1974	5,298	4,363	458	180	297
1975	5,785	4,800	464	186	336
1976	6,223	5,159	487	201	375
1977	6,959	5,767	539	228	425
1978	7,698	6,361	600	256	480
1979	8,643	7,110	683	292	559
1980	9,761	8,022	775	332	631
Per capita: 2/					
1969	4,191	4,363	3,440	3,448	3,462
1970	4,674	4,827	4,059	3,803	4,007
1971	4,830	5,077	3,882	3,681	3,897
1972	5,107	5,297	4,425	4,034	4,240
1973	5,524	5,726	4,678	4,501	4,702
1974	6,174	6,250	6,196	5,545	5,531
1975	6,612	6,781	6,005	5,581	5,933
1976	6,973	7,196	6,045	5,791	6,239
1977	7,600	7,846	6,530	6,438	6,774
1978	8,288	8,591	7,006	6,987	7,278
1979	9,098	9,437	7,666	7,673	8,034
1980	10,091	10,492	8,400	8,472	8,871

1/ In millions of dollars.

2/ In dollars.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1982.

Table 294.-- INCOME OF HOUSEHOLDS, FAMILIES, AND UNRELATED INDIVIDUALS IN 1979: 1980

[Data refer to the 1979 income of households, families, and individuals surveyed in 1980.]

Subject	Number
INCOME IN 1979	
Households	293,159
Less than $5,000	25,044
$5,000 to $7,499	17,439
$7,500 to $9,999	20,452
$10,000 to $14,999	40,861
$15,000 to $19,999	37,359
$20,000 to $24,999	34,102
$25,000 to $34,999	52,788
$35,000 to $49,999	40,698
$50,000 or more	24,416
Median ...dol..	20,721
Mean ...dol..	24,928
Families	225,099
Less than $5,000	11,341
$5,000 to $7,499	11,422
$7,500 to $9,999	14,855
$10,000 to $14,999	28,866
$15,000 to $19,999	28,431
$20,000 to $24,999	27,223
$25,000 to $34,999	45,205
$35,000 to $49,999	36,310
$50,000 or more	21,446
Median ...dol..	23,066
Mean ...dol..	27,022
Unrelated individuals 15 years and over	136,200
Less than $2,000	16,846
$2,000 to $2,999	8,580
$3,000 to $4,999	17,421
$5,000 to $7,999	33,178
$8,000 to $9,999	11,957
$10,000 to $14,999	21,407
$15,000 to $24,999	17,839
$25,000 to $49,999	7,492
$50,000 or more	1,480
Median ...dol..	7,026
Mean ...dol..	10,267

Continued on next page.

Table 294.-- INCOME OF HOUSEHOLDS, FAMILIES, AND UNRELATED INDIVIDUALS IN 1979: 1980 -- Con.

Subject	Number
INCOME IN 1979 -- Con.	
Per capita income ....dol..	7,790
Per capita income, noninstitutional persons ..dol..	7,841
HOUSEHOLD INCOME TYPE IN 1979	
With earnings	258,536
Mean earnings ....dol..	23,663
With social security income	61,183
Mean social security income ....dol..	3,964
With public assistance income	24,806
Mean public assistance income ....dol..	3,079
MEAN FAMILY INCOME IN 1979 BY WORKERS IN FAMILY IN 1979	
No workers ....dol..	11,532
1 worker ....dol..	20,406
2 or more workers ....dol..	32,273

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Provisional Estimates of Social, Economic, and Housing Characteristics, PHC80-S1-1 (March 1982), p. 37.

Table 295.-- POVERTY STATUS IN 1979: 1980

[Based on national poverty thresholds. Data refer to poverty status in 1979 of persons surveyed in 1980.]

Subject	Number
ALL INCOME LEVELS IN 1979	
Families	225,099
With related children under 18 years	132,746
With related children 5 to 17 years	104,595
Female householder, no husband present	27,476
With related children under 18 years	18,981
With related children under 6 years	8,089
Householder 65 years and over	29,038
Unrelated individuals for whom poverty status is determined	109,069
65 years and over	15,714
Persons for whom poverty status is determined	924,175
Related children under 18 years	270,127
Related children 5 to 17 years	193,433
60 years and over	111,072
65 years and over	72,626
INCOME IN 1979 BELOW POVERTY LEVEL	
Families	17,637
Percent below poverty level	7.8
With related children under 18 years	14,059
With related children 5 to 17 years	10,217
Female householder, no husband present	7,428
With related children under 18 years	6,635
With related children under 6 years	4,076
Householder 65 years and over	2,106
Unrelated individuals for whom poverty status is determined	25,256
Percent below poverty level	23.2
65 years and over	4,981
Persons for whom poverty status is determined	92,045
Percent below poverty level	10.0
Related children under 18 years	34,074
Related children 5 to 17 years	21,861
60 years and over	11,298
65 years and over	8,668

Continued on next page.

Table 295.-- POVERTY STATUS IN 1979: 1980 - Con.

Subject	Number
INCOME IN 1979 BELOW SPECIFIED POVERTY LEVEL	
Percent of persons for whom poverty status is determined:	
Below 75 percent of poverty level	6.1
Below 125 percent of poverty level	14.3
Below 150 percent of poverty level	18.7
Below 200 percent of poverty level	28.8

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Provisional Estimates of Social, Economic, and Housing Characteristics, PHC80-S1-1 (March 1982), p. 37.

Table 296.-- POVERTY INCOME GUIDELINES:
APRIL 9, 1982

[In dollars. These family income levels are poverty thresholds established by the U.S. Department of Health and Human Services, effective April 9, 1982, to determine eligibility for certain Federal programs for the poor. In earlier years, these guidelines were issued by the Community Services Administration.]

Size of family unit	Nonfarm family	Farm family
1	5,390	4,630
2	7,160	6,120
3	8,930	7,610
4 1/	10,700	9,100
5	12,470	10,590
6 2/	14,240	12,080

1/ Corresponding levels for four-person families were $9,300 (nonfarm) and $7,910 (farm) on the Mainland and $11,630 (nonfarm) and $9,890 (farm) in Alaska.

2/ For larger families, add $1,770 for each additional member in a nonfarm family and $1,490 for each additional member in a farm family.

Source: Office of the Secretary, Department of Health and Human Services, "Annual Revision of Poverty Income Guidelines," Federal Register, Vol. 47, No. 69 (April 9, 1982), pp. 15417-15418.

Table 297.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973

[Data are based on a sample of 228 families and single consumers, and are subject to relatively large standard errors. For more detailed breakdowns, see the 1981 Data Book, table 286.]

Item	Average amount (dollars)
Family income:	
Before taxes	15,665
After taxes	13,055
Expenditure categories	
Current consumption expenses, total	9,506.14
Food, total	1,916.09
Food at home	1,292.73
Food away from home	590.44
Meals as pay	32.93
Alcoholic beverages	129.93
Tobacco products and smoking supplies	102.22
Housing, total	3,182.03
Shelter, total	1,917.78
Rented dwellings	1,129.97
Owned dwellings	813.36
Other lodging, excluding vacation	28.45
Fuel and utilities,	256.40
Household operations, total	504.69
Telephone	200.56
Housekeeping and laundry supplies, total	153.06
Domestic and other household services	151.06
Housefurnishings and equipment	449.17
Clothing	590.48
Transportation, total	1,530.72
Vehicle purchases (net outlay)	578.97
Vehicle finance charges	110.52
Vehicle operations, total	758.61
Gasoline and fuels	317.03
Other	441.57
Other transportation	82.62
Health care, total	513.92
Health insurance	197.68
Expenses not covered by insurance	283.52
Nonprescription drugs and medical supplies	32.72

Continued on next page.

Table 297.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 - Con.

Item	Average amount (dollars)
Current consumption expenditures (continued)	
Personal care	157.96
Recreation, total	834.15
Vacation and pleasure trips	372.57
Boats, aircraft, and wheel goods	25.68
Television	43.07
Pets, toys and games	46.33
All other recreation expenses	346.50
Reading	70.37
Education	142.50
Miscellaneous	272.33
Personal insurance, retirement, and pensions, total	1,325.37
Life, endowment, annuities and income insurance	437.01
Other personal insurance	12.78
Retirement and pensions	875.58
Gifts and contributions	451.82
Income and personal taxes	
Sources of income and personal taxes	
Money income before taxes	15,665.31
Wages and salaries, total	12,873.17
Money wages and salaries, civilians	12,064.09
Union dues	-47.08
Other occupational expenses	-29.23
Rent received as pay	27.36
Meals received as pay	32.93
Money wages and salaries, armed forces	685.82
Quarters and subsistence	139.27
Self-employment income	$683.73
Social security and railroad retirement	361.52
Government retirement, veteran's payments, and unemployment compensation	413.20
Estates, trusts, dividends, rental income, royalties, income from roomers and boarders, total	616.16
Rental income, royalties, income from roomers and boarders	150.31
Income from interest, dividends, estates and trusts	465.85
Income from all other sources, total	717.55
Welfare and public assistance	129.71
Private pensions	55.43
Regular contributions for support	74.72
Other income, including workers' compensation	457.68

Continued on next page.

Table 297.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 - Con.

Item	Average amount (dollars)
Sources of income and personal taxes (continued)	
Personal taxes, total	-2,610.60
Federal income taxes	-1,990.21
State and local income taxes	-595.92
Personal property and other personal taxes	-24.47
Other financial information	
Other money receipts	561.06
Net change in assets and liabilities 1/	1,109.14
Net change in assets	2,016.72
Net change in liabilities	907.58
Goods and services received without direct expense	99.09
Market value of financial assets	8,199.06
Mortgage principal paid on owned property	-526.71
Estimated market value of owned home 2/	23,725.95
Estimated monthly rental value of owned home 2/	140.14

1/ Data represent end-of-year values.

2/ Estimates made at the beginning of the survey year.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Consumer Expenditure Survey: Integrated Diary and Interview Survey Data, 1972-73. Total Expenditures and Income for the United States and Selected Areas, Bulletin 1992 (1978), table 15, pp. 120-125.

Section 13

PRICES

This section presents indexes of consumer prices for Honolulu, average prices for selected foods, and a comparison of Honolulu family budgets with those in other metropolitan areas. Other statistics on prices are reported in Sections 16, 17, 18, 19, 21, and 23.

In June 1982, the Honolulu all-items consumer price index for all urban consumers stood at 269.5, with the 1967 level equal to 100. The index had increased 6.6 percent in the preceding 12 months, 58.1 percent since June 1977, and 120.5 percent since June 1972. Prices have risen most rapidly since 1967 for gas and electricity (409.5 percent), medical care (234.7 percent) and food at home (up 200.6 percent), and least for women's and girls' apparel (up 87.4 percent).

An "intermediate" budget for a four-person family living on Oahu was estimated at $31,893 as of the Autumn of 1981. This family budget was 26 percent higher than the corresponding urban United States average, and was first among the 25 American metropolitan areas surveyed. The "lower" budget was 33 percent above the national figure; the "higher" budget, 32 percent. Oahu-Mainland differentials in the intermediate budget were greatest for rents and personal income taxes and least for food away from home and automobile transportation. An "intermediate" budget for a retired couple in Honolulu came to $12,157 in the Autumn of 1981, 19 percent above the U.S. urban average.

The Honolulu consumer price index has been compiled by the United States Bureau of Labor Statistics since December 1963. This index measures the average change in prices of goods and services purchased by urban families and single persons living alone. Prices are expressed as a percent of the average levels reported in 1967, the base date. Current data for Honolulu and other cities are published in the Monthly Labor Review and CPI Detailed Report, issued monthly by BLS. A similar series for Honolulu was maintained by the Hawaii State Department of Labor and Industrial Relations from March 1943 to December 1963, using March 1943 as the base date.

Important changes were made in the consumer price index at the beginning of 1978. The existing index, covering urban wage earner and clerical families and single persons living alone, had been based on spending patterns observed in a 1961 survey and had been issued at three-month intervals. This index was discontinued after June 1978. Beginning in February 1978, two new indexes were published, both based on the findings of a 1972-1973 survey and both issued at two-month intervals. The first of these new indexes covered the same population as the older index, that is, urban wage earner and clerical families and individuals; the second covered all urban consumers. The new indexes were linked to the existing index for December 1977 (174.9) and, like the latter, expressed as a percent of the 1967 annual average. The June 1978 all-items index was 182.1 according to the old coverage and weights, 184.1 based on the previous coverage and revised weights, and 183.9 with the expanded coverage and new weights.

Comparisons of family budgets between Honolulu and various Mainland communities have most recently been made for the Fall of 1981. These data were compiled and published by the U.S. Bureau of Labor Statistics. Similar comparisons go back a number of years, and include a Honolulu-Los Angeles comparison for 1945, Honolulu-Washington comparisons for 1951 and 1955-1981, and a 40-area comparison (later for 25 areas) for various dates since Autumn 1966. Budget costs for a retired couple have been prepared by BLS for Honolulu and the Mainland as of 1966, 1967, and annually since 1969. Cost of living adjustments for Federal employees in Hawaii are based on the Honolulu-Washington comparisons.

In addition to these data, the Bureau of Labor Statistics until 1978 published monthly and annual data on average Honolulu prices for a wide variety of foods, and occasional data on a number of non-food items. The city food price series were suspended after June 1978 and since that time only unofficial estimates have been available.

No composite wholesale price index, comparable to the all-items consumer price index, is available for Hawaii. Average wholesale prices of agricultural products are reported in Statistics of Hawaiian Agriculture, issued by the Hawaii Agricultural Reporting Service, and Honolulu Prices: Wholesale Eggs, Poultry, Pork, Beef and Rice and Wholesale Prices: Wholesale Fresh Fruits and Vegetables, both publications of the State Department of Agriculture, Market News Service. Wholesale price statistics of other commodities are less readily available, and in most cases totally lacking.

Data on prices and living costs for the nation as a whole and other areas are summarized in Statistical Abstract of the United States: 1981, Section 15. Long-term trends for Hawaii are traced in Historical Statistics of Hawaii, Section 5.

Table 298.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), FOR HONOLULU: QUARTERLY, 1967 TO 1978

[Unrevised index for urban wage earners and clerical workers. Annual average for 1967=100.]

Year	Annual average	March	June	September	December
1967	100.0	98.9	99.7	100.6	101.8
1968	103.8	102.8	103.4	104.6	105.7
1969	108.5	107.2	108.2	109.6	111.0
1970	114.2	113.2	114.4	114.9	115.7
1971	118.9	116.7	118.5	121.2	121.1
1972	122.8	122.4	122.2	123.1	124.4
1973	128.3	126.0	127.5	129.6	132.8
1974	141.9	137.7	141.2	145.5	148.5
1975	155.0	151.9	154.3	157.6	159.8
1976	162.8	161.1	162.3	164.0	165.5
1977	171.0	168.3	170.5	173.4	174.9
1978 1/ ..	...	177.9	182.1	...	...

1/ The unrevised consumer price index was discontinued after June 1978. For the revised index, see the following table.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly) and Consumer Price Index-Pacific Cities and U.S. Average (monthly).

Table 299.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER: BIMONTHLY, 1977 TO 1982

[1967 average = 100.]

Type of consumer and year	Annual average	February	April	June	August	October	December
All urban consumers:							
1977	...	...	...	...	...	...	174.9
1978	184.1	178.0	181.4	183.9	185.6	188.8	191.3
1979	204.6	196.2	200.7	204.4	207.2	210.5	214.8
1980	228.5	220.9	227.4	227.5	230.1	234.6	236.1
1981	252.4	243.3	250.0	252.8	256.6	259.3	258.3
1982		262.2	263.8	269.5	269.9		
Urban wage earners and clerical workers (revised):							
1977	...	...	...	...	...	...	174.9
1978	184.1	177.5	181.3	184.1	186.0	188.7	191.2
1979	204.5	196.0	200.0	203.6	207.2	211.1	215.5
1980	228.7	221.3	228.4	228.0	229.5	233.5	237.0
1981	252.8	243.5	250.2	253.8	256.6	259.1	259.3
1982		263.2	264.7	269.5	270.1		

Source: U.S. Bureau of Labor Statistics, San Francisco, Consumer Price Index - Pacific Cities & U.S. Average (monthly), as corrected.

Table 300.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1977 TO 1981

[Unless otherwise specified, 1967=100.]

Group	1977	1978	1979	1980	1981
All items	171.0	184.1	204.6	228.5	252.4
Food and beverages	186.9	205.4	231.0	250.6	275.4
Food	193.0	212.8	239.8	259.9	285.8
Food at home	189.0	210.9	243.2	264.2	291.7
Cereals and bakery products	172.8	196.0	216.9	241.2	276.6
Meats, poultry, fish, and eggs	185.3	207.2	247.5	263.6	278.8
Meats, poultry, and fish	186.9	210.2	252.4	268.9	283.8
Dairy products	187.9	203.1	223.9	248.5	279.2
Fruits and vegetables	190.7	219.2	264.0	273.0	311.5
Other foods at home	214.0	235.7	259.0	294.8	331.1
Food away from home	204.5	218.9	236.1	254.4	277.8
Alcoholic beverages	136.7	143.4	155.5	171.4	186.8
Housing	160.3	171.7	192.7	216.6	240.3
Shelter	160.0	170.6	195.1	220.1	238.4
Rent, residential	163.5	174.1	187.3	206.1	224.8
Other rental costs	182.7	203.0	216.6	250.6	288.2
Homeownership	157.6	167.5	195.1	221.3	238.9
Fuel and other utilities	175.5	201.0	209.0	243.1	339.1
Fuels	202.8	229.0	245.5	309.2	480.9
Fuel oil, coal, and bottled gas 1/	(NA)	102.5	117.4	162.8	210.7
Gas (piped) and electricity	202.7	229.2	245.5	308.7	481.4
Household furnishings and operation	152.7	160.3	172.1	186.3	197.7
Apparel and upkeep	152.2	161.3	171.7	183.9	193.4
Apparel commodities	149.8	158.7	168.8	180.2	188.1
Men's and boys' apparel	150.3	158.7	164.9	177.8	190.0
Women's and girls' apparel	139.4	150.6	163.0	169.2	172.8
Footwear	151.0	163.7	171.1	182.0	188.4
Transportation	159.7	170.4	189.5	223.6	247.1
Private transportation	166.1	178.0	198.2	228.1	252.5
Public transportation	125.6	128.8	141.7	204.0	222.6
Medical care	203.0	221.0	238.7	258.6	289.4
Entertainment	170.8	177.7	187.5	201.5	224.8
Other goods and services	172.1	183.9	199.1	219.6	244.2
Personal care	177.8	189.9	205.9	228.5	246.5

Continued on next page.

Table 300.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1977 TO 1981 -- Con.

[Unless otherwise specified, 1967=100.]

Group	1977	1978	1979	1980	1981
Commodities	167.6	179.5	201.5	225.0	243.7
Food and beverages	186.9	205.4	231.0	250.6	275.4
Commodities less food and beverages	151.9	160.0	179.5	203.6	218.8
Nondurables less food and beverages	164.5	173.5	193.5	225.2	249.5
Durables	136.9	143.5	161.6	179.9	188.7
Services	177.3	192.3	211.0	235.7	267.0
Medical care services	210.6	229.6	247.7	268.8	301.1
Special indexes:					
All items less shelter	173.8	187.6	205.3	228.0	254.6
All items less medical care	168.9	181.7	202.2	226.2	249.7
All items less energy 2/	(NA)	105.2	116.5	128.3	139.5
Energy 1/	(NA)	100.4	117.7	156.8	205.5
Commodities less food	150.7	158.7	177.9	201.6	216.7
Nondurables less food	160.7	169.4	188.5	218.6	242.0
Nondurables	177.9	192.1	215.3	240.8	265.6
Services less rent	180.9	197.0	216.9	242.9	277.2
Services less medical care	171.2	185.3	203.6	228.1	258.8

NA Not available.

1/ June 1978=100.

2/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, April 1979 and January 1980, 1981, and 1982, and records.

Table 301.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1977 TO 1981

[Unless otherwise specified, 1967=100.]

Group	1977	1978	1979	1980	1981
All items	171.0	184.1	204.5	228.7	252.8
Food and beverages	186.9	205.3	230.7	252.1	278.6
Food	193.0	212.8	239.6	262.0	289.8
Food at home	189.0	211.7	242.2	266.8	295.9
Cereals and bakery products	172.8	194.8	215.0	238.1	274.5
Meats, poultry, fish, and eggs	185.3	210.3	251.0	268.5	286.5
Meats, poultry, and fish	186.9	213.6	256.2	274.1	292.2
Dairy products	187.9	203.4	223.7	248.2	279.3
Fruits and vegetables	190.7	219.1	252.7	277.1	317.0
Other foods at home	214.0	235.1	259.0	297.8	335.2
Food away from home	204.5	216.8	235.3	253.7	277.3
Alcoholic beverages	136.7	142.8	154.1	166.6	181.8
Housing	160.3	171.4	191.6	213.3	236.3
Shelter	160.0	169.1	192.4	213.6	230.2
Rent, residential	163.5	174.1	187.3	206.1	224.8
Other rental costs	182.7	204.6	218.4	253.6	292.4
Homeownership	157.6	165.5	192.0	213.5	228.8
Fuel and other utilities	175.5	201.1	209.2	243.4	338.9
Fuels	202.8	229.0	245.9	309.3	479.2
Fuel oil, coal, and bottled gas 1/	(NA)	102.4	117.7	164.5	213.3
Gas (piped) and electricity	202.7	229.1	245.9	308.9	479.4
Household furnishings and operation	152.7	164.0	178.8	195.9	206.6
Apparel and upkeep	152.2	159.3	169.2	193.5	201.8
Apparel commodities	149.8	156.5	165.5	190.5	196.8
Men's and boys' apparel	150.3	161.1	167.3	179.4	188.7
Women's and girls' apparel	139.4	139.2	142.6	149.5	153.0
Footwear	151.0	156.8	158.4	165.1	171.4
Transportation	159.7	170.0	189.6	223.6	248.4
Private transportation	166.1	177.4	198.0	229.1	255.0
Public transportation	125.6	128.9	141.8	204.7	223.3
Medical care	203.0	223.3	239.5	261.3	296.0
Entertainment	170.8	182.0	198.4	215.7	236.0
Other goods and services	172.1	182.1	197.0	214.4	238.8
Personal care	177.8	185.6	199.4	214.8	234.8

Continued on next page.

Table 301.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1977 TO 1981 -- Con.

[Unless otherwise specified, 1967=100.]

Group	1977	1978	1979	1980	1981
Commodities	167.6	179.5	201.8	227.1	246.5
Food and beverages	186.9	205.3	230.7	252.1	278.6
Commodities less food and beverages	151.9	159.8	179.7	206.1	221.3
Nondurables less food and beverages	164.5	173.5	195.2	232.5	257.4
Durables	136.9	143.1	161.0	178.8	186.7
Services	177.3	192.5	210.0	232.4	264.0
Medical care services	210.6	232.4	250.1	273.3	310.4
Special indexes:					
All items less shelter	173.8	188.2	207.0	232.2	259.3
All items less medical care	168.9	181.6	202.1	226.2	249.8
All items less energy 2/	(NA)	105.2	116.3	127.9	139.1
Energy 1/	(NA)	100.3	118.5	158.4	204.1
Commodities less food	150.7	158.5	178.0	203.7	218.8
Nondurables less food	160.7	169.3	189.9	224.7	248.6
Nondurables	177.9	192.2	216.0	244.9	270.9
Services less rent	180.9	197.1	215.7	239.0	273.6
Services less medical care	171.2	185.2	202.4	224.3	254.8

NA Not available.
1/ June 1978=100.
2/ December 1977=100.
Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, April 1979 and January 1980, 1981, and 1982, and records.

Table 302.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEXES FOR HONOLULU: DECEMBER 1981

[Percent of all items.]

Expenditure category	CPI-U	CPI-W
All items	100.000	100.000
Food and beverages	19.402	22.534
Food	18.366	21.365
Food at home	12.585	15.288
Cereals and bakery products	1.471	1.951
Meats, poultry, fish, and eggs	4.492	5.644
Meats, poultry, and fish	4.280	5.403
Dairy products	1.338	1.527
Fruits and vegetables	2.129	2.268
Other foods at home	3.155	3.899
Food away from home	5.781	6.077
Alcoholic beverages	1.036	1.169
Housing	46.918	41.230
Shelter	34.236	28.225
Rent, residential	6.955	6.489
Other rental costs	0.685	0.622
Homeownership	26.597	21.115
Fuel and other utilities	5.772	5.793
Fuels	4.408	4.442
Fuel oil, coal, and bottled gas	0.057	0.039
Gas (piped) and electricity	4.350	4.403
Household furnishings and operations	6.910	7.211
Apparel and upkeep	4.732	4.900
Apparel commodities	4.308	4.428
Men's and boys'	1.364	1.299
Women's and girls'	1.358	1.241
Infants' and toddlers'	0.101	0.126
Footwear	0.569	0.540
Transportation	15.634	18.260
Private	13.753	16.540
Gasoline	4.889	6.022
Public	1.880	1.721
Medical	4.981	5.079
Entertainment	4.126	3.896
Other goods and services	4.208	4.101
Personal care	1.556	1.597

Continued on next page.

Table 302.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEXES FOR HONOLULU: DECEMBER 1981 -- Con.

Commodity and service group	CPI-U	CPI-W
All items	100.000	100.000
Commodities	55.282	59.302
Food and beverages	19.402	22.534
Commodities less food and beverages	35.880	36.768
Nondurables less food and beverages	15.953	17.722
Durables	19.927	19.046
Services	44.718	40.698
Medical care services	4.288	4.357
Special indexes:		
All items less shelter	65.764	71.775
All items less medical care	95.019	94.921
All items less energy	90.577	89.388
Energy	9.423	10.612
Commodities less food	36.916	37.937
Nondurables less food	16.989	18.892
Nondurables	35.355	40.256
Services less rent	37.764	34.209
Services less medical care	40.430	36.341

Source: U.S. Bureau of Labor Statistics, records.

Table 303.-- RETAIL FOOD PRICES, BY ITEM, FOR HONOLULU AND MAINLAND CITIES: JUNE 11, 1981 AND JUNE 3, 1982.

[See headnote to preceding table.]

Item	Honolulu price (dollars)		Honolulu as percent of Mainland average 1/	
	1981	1982	1981	1982
Milk, homogenized, 1/2 gal.	1.64	1.67	159	158
Eggs, Grade A, large, 1 doz.	1.09	1.19	138	165
Cheese, sharp, 10 oz.	2.55	2.55	131	128
Margarine, 1 lb.	0.79*	0.79*	130	146
Bread, 24 oz. loaf	0.75	0.83	132	151
Flour, 5 lb.	1.09*	0.99*	106	99
Cereal, Special K, 12 oz.	2.05	2.15	142	140
Sugar, 5 lb.	1.39*	1.69*	88	112
Instant coffee, 10 oz. jar	4.99	4.69	122	111
Beans, dry, 1 lb	0.99	0.99	174	187
Rice, 2 lb.	1.95	2.15	112	121
Mayonnaise, 1 qt.	1.71	1.59	120	114
Peanut butter, 12 oz. jar	2.45	2.23	111	131
Tuna, 6 1/2 oz. can	0.89*	1.17	100	131
Evaporated milk, 13 oz. can	0.57	0.67	112	129
Cling peach halves, 29 oz. can	1.03	0.99*	124	114
Pineapple, 20 oz. can	0.83	0.79*	108	100
Ice cream, 1/2 gal.	1.99	1.95*	135	132
Frozen orange juice concen., 6 oz.	0.59	0.50*	123	102
Broccoli spears, frozen, 10 oz.	0.85	0.95	144	146
Rump roast, boneless, 1 lb.	3.29	2.99	144	129
Sirloin steak, bone in, 1 lb.	3.99	3.29*	140	113
Ground beef, 1 lb.	1.98	1.98	139	140
Pork loin chops, 1 lb.	2.79	2.69	150	125
Ham smoked, 1 lb.	1.49	1.49	137	122
Bacon, 1 lb.	1.39	1.89*	83	89
Wieners, all meat, 1 lb.	1.49*	1.49*	96	90
Chicken, whole broiler fryer, 1 lb.	0.69	0.79	125	127
Potatoes, white, 5 lb.	3.25	1.89	217	148
Carrots, 1 lb.	0.55	0.39	162	122
Cabbage, 1 lb.	0.23	0.29	121	66
Lettuce, 1 head	0.62	0.74	135	119
Bananas, 1 lb.	0.69	0.55	209	167
Tomatoes, 1 lb.	0.59	0.79	97	122
Oranges, 5 lb.	1.75	2.75	102	153
Tax on above items	2.20	2.18	128	112

Footnotes and source on next page.

Table 303.-- RETAIL FOOD PRICES, BY ITEM, FOR HONOLULU AND MAINLAND CITIES: JUNE 11, 1981 AND JUNE 3, 1982 -- Con.

* Special sale price.

1/ Mainland averages based on data for 19 Mainland cities surveyed. These averages exclude Anchorage and Honolulu, also surveyed.

Source: Honolulu Advertiser, July 3, 1981, pp. A-1 and A-3, and June 23, 1982, p. B-1.

Table 304.-- RETAIL FOOD PRICES, FOR HONOLULU AND MAINLAND CITIES: 1979 TO 1982

[June data for a "market basket" of 35 common food items surveyed in Honolulu and other U.S. cities. Data include sales taxes. This survey, organized by the Tampa Tribune, has included Honolulu since 1979.]

Date of survey	Honolulu			All cities	
	Amount (dollars)	Rank	Percent of U.S. average 1/	Number surveyed	Average amount 1/ (dollars)
1979: June 14	46.91	2	120.3	22	38.98
1980: June 19	49.60	2	121.0	22	40.98
1981: June 11	57.18	1	131.1	21	43.63
1982: June 3	56.72	1	126.2	21	44.93

1/ Average excludes Honolulu and Anchorage, both included in number surveyed.

Source: Honolulu Advertiser, July 4, 1979, pp. A-1 and A-6; July 9, 1980, pp. A-1 and A-4; July 3, 1981, pp. A-1 and A-3; June 23, 1982, p. B-1

Table 305.-- COMPARATIVE FAMILY BUDGETS FOR HONOLULU: 1966 TO 1981

Type of family and date	Cost of budget (dollars)			Percent of U.S. urban average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
URBAN FAMILY OF FOUR PERSONS						
1966: Autumn	...	11,190	...	...	122	...
1967: Spring	7,246	10,902	16,076	122	120	123
1969: Spring	8,135	12,118	18,315	124	120	126
1970: Spring	8,597	12,776	19,311	124	120	125
1971: Autumn	8,990	13,108	19,700	125	119	124
1972: Autumn	9,118	13,617	20,579	123	119	124
1973: Autumn	9,924	14,937	21,901	121	118	120
1974: Autumn	11,383	17,019	25,572	124	119	123
1975: Autumn	12,226	18,694	28,302	128	122	127
1976: Autumn	12,711	19,633	30,086	127	121	127
1977: Autumn	13,280	20,883	31,897	127	122	127
1978: Autumn	14,870	23,099	35,602	129	124	130
1979: Autumn	16,507	25,799	39,689	131	126	131
1980: Autumn	18,480	28,488	44,396	132	123	129
1981: Autumn	20,319	31,893	50,317	133	126	132
RETIRED COUPLE						
1966: Autumn	...	4,434	...	...	115	...
1967: Spring	3,110	4,429	7,219	116	115	120
1969: Spring	3,401	4,884	7,849	116	115	118
1970: Spring	3,562	5,166	8,312	115	115	117
1971: Autumn	3,875	5,538	8,621	117	116	116
1972: Autumn	3,927	5,633	8,717	114	113	113
1973: Autumn	4,221	6,038	8,844	112	112	110
1974: Autumn	4,801	6,796	9,918	114	112	111
1975: Autumn	5,168	7,339	10,726	115	114	112
1976: Autumn	5,397	7,691	11,318	115	114	113
1977: Autumn	5,711	8,107	11,882	114	113	111
1978: Autumn	6,357	8,987	13,085	115	115	113
1979: Autumn	7,040	9,972	14,508	117	116	115
1980: Autumn	7,776	10,979	15,889	117	116	114
1981: Autumn	8,665	12,157	17,576	120	119	117

Source: U.S. Bureau of Labor Statistics, Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas (release USDL: 82-139, April 16, 1982), Three Budgets for a Retired Couple, Autumn 1981 (release USDL: 82-266, July 30, 1982), and corresponding releases for earlier years.

Table 306.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1981

Item	Cost of budget (dollars)			Percent of urban U.S. average		
	Lower budget	Inter-mediate budget	Higher budget	Lower budget	Inter-mediate budget	Higher budget
Total budget 1/	20,319	31,893	50,317	133	126	132
Total consumption	15,240	21,530	29,952	126	118	120
Food	6,108	7,626	9,708	134	131	132
At home	5,501	6,649	7,972	141	137	138
Away from home	607	977	1,736	93	100	110
Housing 2/	4,022	6,493	10,200	143	117	121
Shelter 3/	3,171	5,098	7,355	150	117	126
Renter costs 4/	3,171	3,991	5,836	150	146	136
Homeowner costs 5/	...	5,467	7,623	...	112	124
Housefurnishings & operations	851	1,395	2,499	121	116	110
Transportation 6/	1,288	2,421	3,220	98	102	105
Automobile owners	1,827	2,421	3,220	105	97	105
Clothing	1,042	1,432	2,010	111	107	103
Personal care	448	590	834	118	116	116
Medical care 7/	1,583	1,590	1,657	110	110	110
Other family consumption 8/	749	1,378	2,323	116	115	118
Other items 9/	716	1,137	1,966	115	111	114
Social security & disability payments	1,424	2,049	2,049	137	120	103
Personal income taxes	2,939	7,177	16,350	184	162	175

See footnotes on next page.

Table 306.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1980 -- Con.

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked first in total budget costs at the higher and intermediate levels and second at the lower level (where Anchorage ranked first).

2/ Housing includes shelter, housefurnishings and household operations. The higher budget also includes an allowance for lodging away from Oahu.

3/ The average costs of shelter were weighted by the following proportions: lower budget, all families living in rented dwellings; intermediate budget, 25 percent in rented dwellings; higher budget, 15 percent renters.

4/ Includes average contract rent, heating fuel, gas, electricity, water, specified equipment, and insurance on household contents.

5/ Includes interest and principal payments plus taxes; insurance on house and contents; water, refuse disposal, heating fuel, gas, electricity, and specified equipment; and home repair and maintenance costs.

6/ Based on 65 percent of the lower budget families and all of the intermediate and higher budget families owning automobiles.

7/ Based on 30 percent of all families paying full cost of medical insurance 26 percent paying half cost, and 44 percent covered by noncontributory insurance plans (paid by employer).

8/ Includes reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous expenditures.

9/ Includes gifts and contributions, life insurance and occupational expenses.

Source: U.S. Bureau of Labor Statistics, Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas (release USDL: 82-139, April 16, 1982).

Table 307.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1981

[For a retired husband, age 65 years or over and wife. Excludes personal income taxes.]

Item	Cost of budget (dollars)			Percent of U.S urban average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget 1/	8,665	12,157	17,576	120	119	117
Total family consumption	8,292	11,426	16,284	120	119	117
Food	3,003	3,890	4,962	138	134	136
At home	2,836	3,531	4,245	141	137	139
Away from home	167	359	717	95	109	123
Housing 2/	2,587	3,827	5,985	109	113	113
Shelter 3/	1,860	2,356	3,423	103	107	110
Renter costs 4/	2,383	3,293	4,520	147	155	140
Homeowner costs 5/	1,512	1,851	2,953	79	83	97
Housefurnishings, operations .	727	1,471	2,396	126	123	118
Transportation 6/	782	1,293	2,001	141	121	102
Clothing	260	428	615	107	105	98
Personal care	222	323	473	112	111	112
Medical care	1,111	1,120	1,129	102	103	103
Other family consumption 7/	327	545	1,119	119	119	124
Other items 8/	373	731	1,292	120	119	116

Footnotes and source on next page.

Table 307.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1981 -- Con.

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked second at all three levels (Anchorage ranked first at all three levels).

2/ Housing includes shelter, housefurnishings and household operations. The higher budget also includes an allowance for lodging away from Oahu.

3/ The average costs of shelter were weighted by the following proportions: lower budget, 40 percent living in rented dwellings; intermediate budget, 35 percent in rented dwellings; higher budget, 30 percent in rented dwellings.

4/ Includes average contract rent, heating fuel, gas electricity, water, specified equipment, and insurance on household contents.

5/ Includes property taxes, insurance on house and contents, water, refuse disposal, heating fuel, gas, electricity, specified equipment, and home repair and maintenance costs. Assumes all mortgage payments have been completed prior to retirement.

6/ Based on 45 percent of the lower budget families, 60 percent of the intermediate budget families, and all of the higher budget families owning automobiles.

7/ Includes reading, recreation, tobacco products, alcoholic beverages, and miscellaneous expenditures.

8/ Includes gifts and contributions. The higher level also includes an allowance for life insurance.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Three Budgets for a Retired Couple, Autumn 1981 (release, USDL: 82-266, July 30, 1982).

Table 308.-- COST OF LIVING INDEXES AND PAY DIFFERENTIALS FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.: 1982

Allowance category 1/	Oahu	Kauai	Maui County	Hawaii
Indexes 2/				
Local retail:				
Private housing	119.7	117.4	119.7	111.1
Federal housing	108.8	112.6	114.0	106.3
Commissary, PX:				
Private housing	110.8	116.0	...	...
Federal housing	99.9	111.1	...	...
Allowance rates 3/				
Local retail:				
Private housing	20.0	17.5	20.0	10.0
Federal housing	10.0	12.5	15.0	7.5
Commissary, PX:				
Private housing	10.0	15.0	...	...
Federal housing	0	10.0	...	...

1/ Based on access to military commissary and exchange facilities and type of housing occupied. "Local retail" refers to Federal employees who purchase goods and services from private retail establishments; "commissary, PX," to Federal employees who have unlimited access to and who use military commissary and exchange facilities. "Private housing" refers to Federal employees who occupy housing units that are privately owned or rented; "Federal housing," to Federal employees who occupy units owned or leased by a Federal agency.

2/ Washington, D.C., living costs=100. Based on a survey of comparative costs for Federal employees in 1982.

3/ Authorized allowance rate, expressed as a percentage differential, effective November 14, 1982.

Source: U.S. Office of Personnel Management, "Nonforeign Area Cost of Living Allowance for Guam and the State of Hawaii Federal Personnel Manual System, FPM Letter 591-44 (October 28, 1982).

Section 14

ELECTIONS

This section presents data on the number and characteristics of election districts, registered voters, votes cast, campaign expenditures, elected officials, and legislative bills.

Almost 403,000 persons were registered to vote in the general election of November 4, 1980, and more than 318,000 actually voted. The number voting amounted to 46 percent of the 696,000 Hawaii residents of voting age at that time. The latter figure included numerous aliens, inmates of mental and penal institutions, and members of the armed forces and their dependents, groups that are either ineligible or unlikely to vote in Island elections. Among registered voters, females slightly outnumbered males and Democrats were far more numerous than Republicans. Campaign expenditures for the 1980 primary and general elections (other than the presidential race) exceeded $9,600,000.

A constitutional convention was convened on July 5, 1978. All of the constitutional amendments proposed by the convention were subsequently approved by the electorate.

Hawaii has 2 Congressional, 25 Senatorial, 51 Representative, and 9 Councilmanic districts. It also contains 15 Soil Conservation districts, 28 active Neighborhood Board districts, and 299 election precincts.

Elective offices in Hawaii include the President and Vice President, 2 U.S. Senators, 2 U.S. Representatives, the Governor and Lieutenant Governor, 25 State Senators, 51 State Representatives, and various county officials. The minimum voting age is 18 years.

The 1981 State Legislature, with 76 members, included 62 males, 28 persons under 40 years of age, 36 persons of Japanese ancestry, 12 persons born in places other than Hawaii, and 56 Democrats.

In its 1982 session, the State Legislature considered 5,931 bills; 308 were passed and 296 became law. The Legislature also considered 883 resolutions, of which 420 were adopted.

The official results of primary, general, and special elections are published by the Office of the Lieutenant Governor. Additional information is often available from the various County clerks. Earlier figures for Hawaii appear in Historical Statistics of Hawaii, Section 24. National statistics appear in the Statistical Abstract of the United States: 1981, Section 16.

Table 309.-- ELECTION DISTRICTS AND POPULARLY ELECTED OFFICIALS: NOVEMBER 1980 AND 1982

Office	Election districts		Officials to be elected 1/		Total elected officials, including holdover	
	1980	1982	1980	1982	1980	1982
Federal offices:						
President and Vice President	...	...	2	-	2	2
U.S. Senate	...	...	1	1	2	2
U.S. House of Representatives	2	2	2	2	2	2
State offices:						
Governor and Lt. Governor	...	...	-	2	2	2
State Senate	8	25	25	13	25	25
State House of Representatives	27	51	51	51	51	51
Board of Education	2	2	13	-	13	13
Office of Hawaiian Affairs	...	...	9	7	9	9
Soil and water conservation dist. 2/	15	15	...	...	45	45
County offices:						
Mayor	...	...	3	2	4	4
Council:						
Hawaii	...	...	9	-	9	9
Maui	...	...	9	-	9	9
Honolulu	9	9	-	9	9	9
Kauai	...	...	7	7	7	7
Prosecuting Attorney	...	...	3	-	3	3
Neighborhood Boards 3/	28	28	-	-	416	416

1/ Including vacancies to be filled.

2/ Three seats are elected and two are appointed for each district. Elections are an ongoing process.

3/ There are 28 active districts out of 33 areas. Elections are conducted every other year in odd-numbered years.

Source: Office of the Lieutenant Governor, August 10, 1982.

Table 310.-- POPULATION OF VOTING AGE AND PERCENT VOTING: NOVEMBER 1960 TO 1982

[Resident population 20 years old and over through 1970 and 18 years and over in 1972 and later years. Includes armed forces stationed in Hawaii.]

Year (Nov.)	Persons of voting age	Percent casting votes		Subject	Persons of voting age
		For Presidential Electors	For U.S. Representatives		
1960	371,000	49.7	49.2	Age, 1982	716,000
1962	390,000	...	49.9	18 to 24 years	138,000
1964	404,000	51.3	56.9	25 to 44 years	312,000
1966	417,000	...	49.9	45 to 64 years	181,000
1968	439,000	53.8	55.3	65 years and over ...	85,000
1970	473,000	...	44.0		
1972	547,000	49.4	50.3	Race, 1980 (census) ...	689,108
1974	586,000	...	44.3	White	237,332
1976	624,000	46.6	47.0	Black	12,871
1978	657,000	...	38.6	Amer. Indian	1,954
1980	696,000	43.5	40.3	Asian & Pacific Isl.	412,696
1982	716,000	...	(NA)	Other races	24,255

NA Not available.

Source: U.S. Bureau of the Census, "Projections of the Population of Voting Age for States; November 1980," Current Population Reports, Series P-25, No. 879, March 1980, and "Projections of the Population of Voting Age for States: November 1982," Current Population Reports, Series P-25, No. 916, July 1982.

Table 311.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY, GENERAL, AND SPECIAL ELECTIONS: 1970 TO 1982

Type and date of election	Registered voters 1/			Votes cast 2/	
	Both sexes	Male	Female	Number	Percent of reg. voters
Primary elections:					
1970: Oct. 3	282,470	...	...	202,401	71.7
1972: Oct. 7	326,906	...	...	203,160	62.1
1974: Oct. 5	333,527	...	...	235,982	70.8
1976: Oct. 2	353,249	175,276	177,973	251,457	71.2
1978: Oct. 7	387,673	190,796	196,877	289,029	74.6
1980: Sept. 20 ...	384,858	186,982	197,876	264,041	68.6
1982: Sept. 18 ...	385,307	185,763	199,544	272,691	70.8
General elections:					
1970: Nov. 3	291,681	146,630	145,051	247,740	84.9
1972: Nov. 7	337,837	169,896	167,941	286,593	84.8
1974: Nov. 5	343,404	171,072	172,332	272,545	79.4
1976: Nov. 2	363,045	180,265	182,780	309,025	85.1
1978: Nov. 7	395,262	194,412	200,850	292,690	74.0
1980: Nov. 4	402,795	195,804	206,991	318,026	79.0
1982: Nov. 2	405,005	195,259	209,746	(NA)	(NA)
Special elections: 3/					
1978: May 20	344,952	169,787	175,165	119,250	34.6
1980: Nov. 4	54,083	24,465	29,618	42,848	79.2
1982: Nov. 2	63,950	29,078	34,872	(NA)	(NA)

NA Not available.

1/ Data by sex not available for primary elections before 1976.

2/ Number voting excludes unregistered votes cast (overseas and nonresident).

3/ Constitutional convention of 1978; Office of Hawaiian Affairs, 1980 and 1982.

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election and records.

Table 312.-- PERCENT OF CIVILIAN POPULATION REGISTERED OR VOTING IN ELECTIONS: 1970 TO 1980

[Based on July 1 estimates of civilian population, including military dependents, aliens, and persons under 18 years of age.]

Year	Primary elections		General elections		Special elections 1/	
	Registered	Voting	Registered	Voting	Registered	Voting
1970	39.1	28.0	40.4	34.3	...	...
1972	42.1	26.2	43.5	36.9	...	...
1974	41.2	29.2	42.4	33.7	...	...
1976	41.8	29.8	43.0	36.6	...	...
1978	44.5	33.2	45.4	33.6	39.6	13.7
1980	42.2	29.0	44.2	34.9	(2/)	(2/)

1/ For delegates to the Constitutional Convention of 1978 and Board of Trustees of the Office of Hawaiian Affairs in 1980.

2/ Only Hawaiians and Part Hawaiians were eligible to vote for the OHA Board. An estimated 5.9 percent of the civilian population of all races were registered and 4.7 percent voted. Based on 1980 estimates of the Hawaiian and Part Hawaiian population, 30.8 percent were registered and 24.4 percent voted.

Source: Calculated from Office of the Lieutenant Governor, Result of Votes Cast for each election, and Hawaii State Department of Planning and Economic Development, Preliminary Intercensal Population Estimates, 1970-1980 (Statistical Report 147, July 9, 1981), table 1.

Table 313.-- PERCENT OF CIVILIAN NONINSTITUTIONAL POPULATION, 18 YEARS OLD AND OVER, REPORTED REGISTERED AND VOTED: NOVEMBER 1980

[Based on Current Population Survey sample. Excludes armed forces, inmates of institutions, and Hawaii voters currently living out of State.]

Race	All persons 18 years old and over	Reported registered		Reported voted	
		Percent	Standard error	Percent	Standard error
All races 1/ ..	602,000	61.9	2.0	55.9	2.1
White	195,000	66.5	3.5	59.0	3.6
Nonwhite 2/	407,000	...	...	...	...

1/ For the United States as a whole, 66.9 ± 0.2 percent were reported registered, and 59.2 ± 0.2 percent were reported voted.

2/ Not separately reported in source.

Source: Unpublished data from November 1980 Current Population Survey, supplied by U.S. Bureau of the Census.

Table 314.-- PARTY OF VOTES CAST IN PRIMARY ELECTIONS: 1970 TO 1982

Primary election	Total votes cast	Democratic	Republican	Other parties	Nonpartisan	Invalidated
1970 1/ ..	202,401	159,135	43,253	-	13	-
1972 2/ ..	203,160	...	...	...	...	...
1974	235,982	199,992	35,867	123	-	-
1976	251,457	215,037	35,495	568	357	-
1978 3/ ..	289,029	262,531	25,642	211	548	-
1980	264,041	250,226	10,628	1,089	1,881	217
1982	272,691	245,426	13,262	12,681	1,013	309

1/ Earliest year available.

2/ Not tabulated by party.

3/ Party data add to 288,932 rather than reported total.

Source: Office of the Lieutenant Governor, Result of Votes Cast, Primary Election for years shown.

Table 315.-- PARTY OF VOTERS, BY COUNTIES: PRIMARY ELECTION, SEPTEMBER 18, 1982

Party	State total	Hawaii County	Maui County	City & Co. of Honolulu	Kauai County
Registered voters ...	385,307	44,622	34,267	284,253	22,165
Votes cast	272,691	31,993	24,518	197,904	18,276
Democratic	245,426	29,142	22,279	176,102	17,903
Independent Democratic .	12,397	752	545	10,988	112
Libertarian	284	37	26	197	24
Republican	13,262	1,905	1,435	9,726	196
Nonpartisan	1,013	120	159	693	41
Invalidated	309	37	74	198	-
Not voting	112,616	12,629	9,749	86,349	3,889

Source: Office of the Lieutenant Governor, records.

Table 316.-- PRECINCTS, REGISTERED VOTERS, AND VOTES CAST, BY ISLANDS: GENERAL ELECTION, 1980

Island	Number of precincts	Registered voters	Votes cast 1/	
			Number	Percent
State total.................	241	402,795	318,026	79.0
Hawaii	52	46,451	38,394	82.7
Maui	25	33,339	24,750	74.2
Lanai	1	877	716	81.6
Molokai: 2/				
Kalawao	1	128	86	67.2
Rest of Molokai	4	2,735	1,802	65.9
Oahu	145	297,533	234,410	78.8
Kauai	12	21,566	17,800	82.5
Niihau	1	166	68	41.0
Northwestern Hawaiian Islands ...	-	-	-	...

1/ Excludes 59 unregistered and nonresident overseas ballots.
2/ Corrected from 1981 edition, table 306.
Source: Office of the Lieutenant Governor, information provided February 13, 1981.

Table 317.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS, BY COUNTIES: 1982

[Excludes persons registered for only the Office of Hawaiian Affairs election and not for the regular primary or general elections.]

Election and county	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
PRIMARY ELECTION					
State total ..	385,307	185,763	199,544	272,691	70.8
Hawaii	44,622	21,686	22,936	31,993	71.7
Maui	34,267	16,638	17,629	24,518	71.5
Honolulu	284,253	136,489	147,764	197,904	69.6
Kauai	22,165	10,950	11,215	18,276	82.5
GENERAL ELECTION					
State total ..	405,005	195,259	209,746	(NA)	(NA)
Hawaii	46,315	22,536	23,779	(NA)	(NA)
Maui	35,956	17,498	18,458	(NA)	(NA)
Honolulu	300,171	144,071	156,100	(NA)	(NA)
Kauai	22,563	11,154	11,409	(NA)	(NA)

NA Not available.
Source: Office of the Lieutenant Governor, records.

Table 318.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION, SEPTEMBER 18, 1982

Office, party and candidate	Votes
U.S. SENATOR	
Republican:	
Clarence J. Brown	6,142
Al Shipley	3,279
Democratic:	
Spark Matsunaga	187,708
Independent Democratic:	
E. F Bernier-Nachtwey	5,312
REPRESENTATIVE TO CONGRESS, DISTRICT 1	
Democratic:	
Cec Heftel	94,386
Libertarian:	
Rockne H. Johnson	109
REPRESENTATIVE TO CONGRESS, DISTRICT 2	
Nonpartisan:	
Greg Mills	282
Democratic:	
Daniel K. Akaka	96,385
Libertarian	
Amelia Lew Fritts	106
GOVERNOR	
Nonpartisan:	
Brada Ji Price	577
Republican:	
D. G. Anderson	11,997
Gabriel Juarez, Jr.	192
Jack J. Mahakian	206
Democratic:	
George R. Ariyoshi	128,993
Frank De Cambra	755
John Fritz	551
Joseph Johns, Sr.	483
Jean King	106,935
William Kualwa	1,374
Arthur Francis Stebbing	361
Independent Democratic:	
Frank F. Fasi	11,813

Continued on next page.

Table 318.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION, SEPTEMBER 18, 1982 -- Con.

Office, party and candidate	Votes
LIEUTENANT GOVERNOR	
Republican:	
Patricia Saiki	10,984
Leeto Whetetto	796
Democratic:	
Bernie Bicoy	21,383
Francis McMillen	5,486
Dennis O'Connor	101,562
John Waihee	105,895
Independent Democratic:	
Randy A. K. Piltz	7,270
MAYOR, COUNTY OF MAUI	
Republican:	
Hannibal Tavares	1,197
Democratic:	
Bill Eger	4,040
Bob Nakasone	13,031
Al Rodrigues	1,088
MAYOR, COUNTY OF KAUAI	
Republican:	
John Sousa	100
Democratic:	
Tony T. Kunimura	9,084
Joann Ai Yukimura	8,231

Source: Office of the Lieutenant Governor, preliminary results provided September 24, 1982.

Table 319.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1970 TO 1980

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
PRESIDENT						
1972	270,274	McGovern	101,409	Nixon	168,865	-
1976	291,301	Carter	147,375	Ford	140,003	3,923
1980	303,287	Carter	135,879	Reagan	130,112	37,296
U.S. SENATOR						
1970 1/	240,760	Heftel	116,597	Fong	124,163	-
1974	250,221	Inouye, D. ..	207,454	None	-	42,767
1976	302,092	Matsunaga ...	162,305	Quinn	122,724	17,063
1980	288,006	Inouye, D. ..	224,485	Brown	53,068	10,453
REPRESENTATIVE TO CONGRESS, DISTRICT 1						
1970 1/	117,175	Matsunaga ...	85,411	Cockey	31,764	-
1972	134,964	Matsunaga ...	73,826	Rohlfing ...	61,138	-
1974	120,617	Matsunaga ...	71,552	Paul	49,065	-
1976	137,602	Heftel	60,050	Rohlfing ...	53,745	23,807
1978	115,412	Heftel	84,552	Spillane ...	24,470	6,390
1980	123,181	Heftel	98,256	Noble	19,819	5,106
REPRESENTATIVE TO CONGRESS, DISTRICT 2						
1970 1/	91,038	Mink	91,038	None	-	-
1972	139,899	Mink	79,856	Hansen	60,043	-
1974	138,810	Mink	86,916	Coray	51,894	-
1976	156,099	Akaka	124,116	Inouye, H. .	23,917	8,066
1978	137,957	Akaka	118,272	Isaak	15,697	3,988
1980	157,380	Akaka	141,477	None	-	15,903
GOVERNOR						
1970 1/	239,061	Burns	137,812	King	101,249	-
1974	249,650	Ariyoshi ...	136,262	Crossley ...	113,388	-
1978	281,587	Ariyoshi ...	153,394	Leopold	124,610	3,583

Continued on next page.

Table 319.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1970 TO 1980 -- Con.

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
MAYOR OF HONOLULU						
1972	215,221	Fasi	111,376	Anderson, D.	103,845	-
1976	224,665	Fasi	137,911	Clement	82,595	4,159
1980	219,408	Anderson, E.	152,240	Schweigert .	58,155	9,013

1/ Final tallies, corrected from preliminary 1970 counts reported in previous editions of the Data Book (1971, table 39; 1972, table 52; 1973, table 69; 1974, table 66; 1975, table 183; 1976, table 188; 1977, table 208; and 1978, table 237) and in Historical Statistics of Hawaii, table 24.6.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii for 1970-1980.

Table 320.-- NEIGHBORHOOD BOARD ELECTIONS, OAHU: 1975 TO 1981

[First neighborhood board formed May 1975.]

Year	Number of boards		Board seats elected	Voters (ballots cast)	Votes cast 1/
	In operation, Dec. 31	Holding elections 2/			
1975	6	6	110	1,767	5,702
1976	12	8	118	24,308	58,787
1977	27	22	316	11,333	34,657
1978	28	3	48	10,967	26,156
1979 3/ ..	28	25	366	12,495	38,714
1981 4/ ..	28	28	416	48,745	178,042

1/ 1976 total incomplete.

2/ One board held two elections in 1976.

3/ First use of mail-in ballots; 898 ballots cast and 2,555 votes cast.

4/ First simultaneous election, May 1, 1981; all mail-in ballots, 294,735 ballots mailed out.

Source: Neighborhood Commission, City and County of Honolulu, records.

Table 321.-- VOTES CAST FOR MAJOR OFFICES BY COUNTIES: GENERAL ELECTION, 1980

Office, candidate and party 1/	State total	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai	Overseas votes
PRESIDENT						
Carter (D)	135,879	17,630	12,674	96,472	9,081	22
Reagan (R)	130,112	14,247	10,359	99,596	5,883	27
Anderson, J. (I)	32,021	3,091	2,237	25,331	1,352	10
Clark (L)	3,269	535	338	2,259	137	-
Commoner (C)	1,548	293	99	1,036	120	-
Hall (H)	458	65	44	301	48	-
U.S. SENATOR						
Inouye (D)	224,485	26,495	18,513	166,634	12,808	35
Brown (R)	53,068	6,386	4,091	40,681	1,898	12
Shasteen (L)	10,453	1,349	946	7,764	389	5
REPRESENTATIVE TO CONGRESS, DISTRICT 1						
Heftel (D)	98,256	-	-	98,237	-	19
Noble (R)	19,819	-	-	19,805	-	14
Johnson (L)	5,106	-	-	5,009	-	7
REPRESENTATIVE TO CONGRESS, DISTRICT 2						
Akaka (D)	141,477	29,562	20,314	77,761	13,832	8
Smith (L)	15,903	3,470	2,428	9,080	923	2
MAYOR, CITY AND CO. OF HONOLULU						
Anderson, E. (D)	152,240	-	-	152,240	-	-
Schweigert (R)	58,155	-	-	58,155	-	-
Leialoha (N)	5,595	-	-	5,595	-	-
Seavey (L)	3,418	-	-	3,418	-	-
MAYOR, COUNTY OF HAWAII						
Matayoshi (D)	21,603	21,603	-	-	-	-
Ferreira (R)	11,774	11,774	-	-	-	-

Continued on next page.

Table 321.-- VOTES CAST FOR MAJOR OFFICES BY COUNTIES: GENERAL ELECTION, 1980 -- Con.

Office, candidate and party 1/	State total	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai	Overseas votes
MAYOR, COUNTY OF KAUAI						
Malapit (D)	10,296	-	-	-	10,296	-
Sousa (R)	4,552	-	-	-	4,552	-

1/ D, Democrat; R, Republican; I, Independent; L, Libertarian; C, Citizens; H, Communist; N, nonpartisan.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, Tuesday, November 4, 1980, State of Hawaii.

Table 322.-- REGISTERED VOTERS AND VOTES CAST FOR THE BOARD OF TRUSTEES OF THE OFFICE OF HAWAIIAN AFFAIRS, BY COUNTIES: NOVEMBER 4, 1980

County	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
State total 1/	54,083	24,465	29,618	42,848	79.2
Hawaii	7,446	3,382	4,064	6,156	82.6
Maui	6,336	2,972	3,364	4,760	75.1
Honolulu	37,346	16,708	20,638	29,499	78.9
Kauai	2,955	1,403	1,552	2,433	82.3

1/ Based on 1980 population estimates by race from the Hawaii Health Surveillance Program (shown in The State of Hawaii Data Book 1981, table 14), 30.8 percent of the Hawaiian and Part Hawaiian population registered for the OHA special election and 24.4 percent cast OHA ballots. Participation in this special election was limited to persons with Hawaiian blood, numbering approximately 175,453--including those ineligible because of age--in 1980.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii, Tuesday, November 4, 1980, pp. 177 and 248.

Table 323.-- CAMPAIGN EXPENDITURES: 1980 ELECTIONS

[In thousands of dollars.]

Election and race	All candidates	Democrats	Republicans	All others 1/
PRIMARY 2/				
All races reported	4,578	4,218	355	5
U.S. Senator	82	62	20	-
U.S. Representative	204	201	3	-
State Senator	601	484	117	(Z)
State Representative	1,121	994	126	1
Mayor	1,818	1,812	6	(Z)
County Council	504	463	38	3
Prosecuting Attorney	246	201	45	-
GENERAL 3/				
All races reported	5,046	3,831	758	457
U.S. Senator	58	50	8	-
U.S. Representative	72	68	4	-
State Senator	863	629	233	(Z)
State Representative	1,608	1,352	251	5
Mayor	1,111	1,098	13	(Z)
County Council	637	506	119	11
Prosecuting Attorney	257	128	129	-
Board of Education	109	-	-	109
Office of Hawaiian Affairs ..	331	-	-	331

Z Less than $500.

1/ Libertarian or nonpartisan.

2/ Expenditures from January 1, 1980 through election day, September 20, 1980. No information was received from 3 U.S. Senate candidates (1 Democrat, 1 Republican, and 1 Libertarian) and 3 U.S. House Candidates (1 Democrat and 2 Libertarians).

3/ Expenditures from January 1, 1980 through election day, November 4, 1980. No information was received from 1 U.S. Senate candidate and 2 U.S. House candidates (all Libertarians).

Source: State Campaign Spending Commission, records.

Table 324.-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE: 1971 TO 1981

Regular session	House of Representatives: Total	House of Representatives: Democrats	House of Representatives: Republicans	House of Representatives: Vacant seats	Senate: Total	Senate: Democrats	Senate: Republicans	Senate: Vacant seats
1971 ..	51	34	17	-	25	16	8	1
1973 ..	51	35	16	-	25	17	8	-
1975 ..	51	35	16	-	25	18	7	-
1977 1/	51	41	10	-	25	18	7	-
1979 ..	51	42	9	-	25	18	7	-
1981 ..	51	39	12	-	25	17	8	-

1/ Forty Democrats and 11 Republicans were elected to the House of Representatives in the general election of November 1976. In January 1977, however, one Republican changed his affiliation to Democrat.

Source: Session Laws of Hawaii, 1969-1979; Office of the Lieutenant Governor, records.

Table 325.-- PARTY MEMBERSHIP OF COUNTY COUNCILS: 1980 AND 1982

[As of January.]

County	Total seats	Democrats		Republicans		Other parties or vacant	
		1980	1982	1980	1982	1980	1982
All counties	34	27	27	7	7	-	-
Hawaii	9	7	7	2	2	-	-
Maui	9	7	7	2	2	-	-
Honolulu	9	7	7	2	2	-	-
Kauai	7	6	6	1	1	-	-

Source: The Chamber of Commerce of Hawaii, Who's Who in Government, State of Hawaii for 1979-1980 (pp. 24-31) and 1981-1982 (pp. 27-34).

Table 326.-- COMPOSITION OF THE 1981 HAWAII STATE LEGISLATURE

Subject	House of Representatives			Senate		
	Total	Democrats	Republicans	Total	Democrats	Republicans
All members	51	39	12	25	17	8
Island of residence:						
Hawaii	5	4	1	3	2	1
Maui	4	3	1	2	2	-
Lanai	-	-	-	-	-	-
Molokai	-	-	-	-	-	-
Oahu	39	29	10	19	12	7
Kauai	3	3	-	1	1	-
Niihau	-	-	-	-	-	-
Year born:						
1920 or earlier	1	-	1	4	3	1
1921 to 1930	12	8	4	11	5	6
1931 to 1940	10	6	4	7	6	1
1941 to 1950	20	19	1	1	1	-
1951 or later	8	6	2	2	2	-
Sex:						
Male	41	33	8	21	16	5
Female	10	6	4	4	1	3
Ethnic stock:						
Caucasian, except Portuguese	8	5	3	5	3	2
Chinese	1	1	-	2	1	1
Filipino	3	3	-	1	1	-
Japanese	24	23	1	12	9	3
Negro	-	-	-	1	1	-
Portuguese	1	-	1	1	-	1
Other (unmixed) 1/	-	-	-	-	-	-
Mixed: Part-Hawaiian	7	4	3	3	2	1
Mixed: Non-Hawaiian	7	3	4	-	-	-
Place of birth:						
Hawaii	39	31	8	22	15	7
Mainland U.S.	9	5	4	3	2	1
U.S. terr. or poss.	-	-	-	-	-	-
Foreign country	3	3	-	-	-	-

1/ Hawaiian, Korean, Puerto Rican, Samoan, or other ethnic stock.

Source: Office of the Lieutenant Governor, data provided February 6, 1981.

Table 327.-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION: 1980 TO 1982

Action	1980: regular 1/	1981		1982: regular
		Regular 2/	Special	
House bills:				
Carried over from previous year	1,605	-	-	1,749
Introduced	1,295	1,942	20	1,273
Enacted	201	*193	18	207
Vetoed	4	24	-	4
Became law	197	169	18	203
Senate bills:				
Carried over from previous year	1,749	-	-	2,046
Introduced	1,321	2,131	4	863
Enacted	116	83	4	101
Vetoed	2	9	-	8
Became law	112	74	4	93
House resolutions:				
Offered	633	789	-	464
Adopted	427	389	-	283
House concurrent resolutions:				
Offered	153	245	-	177
Adopted	38	24	-	31
Senate resolutions:				
Offered	386	348	-	151
Adopted	283	218	-	98
Senate concurrent resolutions:				
Offered	64	80	-	91
Adopted	18	15	-	8

* Revised.

1/ Senate Bills 1703 and 1973, proposing amendments to the State Constitution, were also passed.

2/ House Bills 150 and 238, proposing an amendment to the State Constitution, were also passed.

Source: Legislative Reference Bureau, records.

Section 15

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

Statistics in this section relate to banks and other financial institutions, stocks and bonds, insurance, fires, and business firms.

There were nine banks with 182 branches, nine savings and loan associations with 163 branches, four trust companies, and 76 industrial loan or small loan licensees with 236 branch offices in Hawaii as of December 31, 1981. Deposits in Island banks reached $4.8 billion in mid-1981, compared with $1.8 billion a decade earlier. Assets of savings and loan associations stood at $4.4 billion in mid-1981, more than five times their 1971 level. There were 152 credit unions with combined assets of $827 million at the end of 1981.

Approximately 174,000 Hawaii residents held shares in U.S. public corporations or investment companies in 1981.

Life insurance in force in Hawaii at the end of 1980 amounted to $19.1 billion, more than twice the figure reported ten years earlier. For all 594 insurance companies doing business in the Islands, Hawaii premiums amounted to $682 million in 1980 and losses, claims, and benefits paid came to only $353 million. Oahu fire losses amounted to $15 million in fiscal 1981. Persons covered by the two major prepaid health insurance plans as of December 31, 1981, numbered 661,000, with membership dues of $251 million.

By mid-1982, more than 38,000 corporations and partnerships were registered to do business in Hawaii: 26,400 local ("domestic") corporations, 3,700 out-of-State ("foreign") corporations, and 8,200 partnerships. Business establishments with one or more employees in 1980 numbered 21,125; 100 had 250 or more employees. During fiscal 1982, 3,126 new local corporations were formed and 1,436 existing local corporations were dissolved or merged. Business receipts of corporations exceeded $12 billion in 1978; business receipts of proprietorships in 1979 amounted to $1.04 billion. Hawaii's largest corporation, Amfac, Inc., reported 1981 sales of $2.15 billion, with a net profit of $44 million.

Sources for statistics on these subjects include the Hawaii State Department of Commerce and Consumer Affairs (specifically its Bank Examination, Insurance, and Business Registration Divisions), the State Department of Taxation, the Honolulu Fire Department, the New York Stock Exchange, the Health Insurance Institute and two major local health insurance plans, the Hawaii Credit Union League, and the annual report on County Business Patterns issued by the U.S. Bureau of the Census. Historical Statistics of Hawaii, Sections 22 and 23, provides information for earlier periods. Comparable Mainland data appear in Sections 17 and 18 of Statistical Abstract of the United States: 1981.

Table 328.-- NUMBER OF BANKS AND OTHER FINANCIAL INSTITUTIONS, BY ISLANDS: DECEMBER 31, 1981

Islands	Banks	Savings and loans	Industrial loan licensees	Trust companies
Firms	9	9	76	4
Branches, total 1/	182	163	236	7
Hawaii	22	19	27	2
Maui	19	16	18	1
Lanai	1	2	-	-
Molokai	1	2	1	-
Oahu	116	114	180	4
Kauai	12	10	10	-
Niihau	-	-	-	-
Other Pacific islands	11	-	-	-

1/ Includes out-of-state branches on other Pacific islands.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, information provided March 17, 1982.

Table 329.-- BANKS: 1971 TO 1981

Year	Number, June 30		Total assets, June 30 ($1,000)	Debits to demand deposits, cal. year ($1,000)	Bank clearings, cal. year ($1,000)
	Banks	Branch offices and facilities			
1970	7	143	1,762,811	23,305,519	13,286,842
1971	7	149	2,062,194	24,316,129	15,091,524
1972	7	155	2,252,841	27,006,791	16,839,868
1973	8	162	2,625,855	31,803,985	19,253,017
1974	8	164	2,875,085	38,495,103	21,219,856
1975	8	165	2,964,953	42,198,265	23,663,047
1976	8	168	3,207,161	44,908,514	27,173,406
1977	8	166	3,387,094	50,492,878	30,437,727
1978	8	171	4,003,656	58,264,541	34,104,261
1979	9	170	4,431,161	72,492,632	39,746,116
1980	9	173	5,099,835	84,336,851	42,719,522
1981	9	176	5,556,264	90,280,833	43,333,718

Year	Deposits, June 30 ($1,000)			
	Total	Demand	Time	Government and other
1970	1,558,671	558,924	631,538	368,209
1971	1,804,545	624,130	751,692	428,723
1972	2,000,685	683,419	843,828	473,438
1973	2,367,682	781,470	982,689	603,523
1974	2,573,664	819,177	1,074,603	679,883
1975	2,615,796	875,441	1,170,368	569,986
1976	2,883,238	880,902	1,326,326	676,010
1977	3,008,895	932,909	1,497,021	578,965
1978	3,601,380	1,099,932	1,664,932	836,517
1979	3,930,365	1,171,686	1,863,368	895,311
1980	4,524,532	1,259,679	2,098,238	1,166,615
1981	4,790,261	1,082,767	2,559,876	1,147,618

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, *Comparative Statement of Conditions of Banks* (semi-annual) and records.

Table 330.-- SAVINGS AND LOAN ASSOCIATIONS: 1971 TO 1981

[As of June 30.]

Year	Number		Assets ($1,000)	Deposits 1/ ($1,000)
	Associations	Branches 2/		
1971	13	55	869,323	716,674
1972	12	62	1,085,455	878,335
1973	12	72	1,325,331	1,032,679
1974	11	82	1,474,175	1,146,587
1975	11	90	1,650,050	1,326,024
1976	11	107	1,923,501	1,608,434
1977	11	112	2,345,999	1,952,042
1978	10	115	2,876,344	2,211,889
1979	9	128	3,447,136	2,664,704
1980	8	139	3,896,380	2,901,379
1981	9	151	4,420,035	3,083,182

1/ Withdrawable shares, withdrawable deposits, investment certificates, and NOW accounts.

2/ Branches, facilities, and agencies.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, Comparative Statement of Condition of Savings & Loan Associations (semi-annual) and records.

Table 331.-- TRUST COMPANIES AND LOAN LICENSEES: 1971 TO 1981

[As of June 30.]

Year	Trust companies		Industrial loan licensees		Small loan licensees	
	Number	Assets ($1,000)	Number	Assets ($1,000)	Number	Assets ($1,000)
1971	3	45,049	220	371,556	47	871
1972	4	46,941	220	448,935	40	365
1973	3	45,809	221	549,495	24	131
1974	3	41,181	225	680,286	24	653
1975	3	46,988	235	718,010	6	67
1976	3	53,365	239	797,883	6	32
1977	3	57,911	242	742,330	-	-
1978	3	59,862	238	776,687	-	-
1979	3	53,779	243	868,539	-	-
1980	4	70,156	249	982,858	-	-
1981	4	89,130	244	1,072,914	-	-

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, Comparative Statement of Condition of Trust Companies (semi-annual), Industrial Loan Licensees Comparative Consolidated Statement of Condition (semi-annual), and records.

Table 332.-- PRIME RATE AND FEDERAL FUNDS RATE CHARGED BY BANKS: 1976 TO 1981

Year	Annual averages (percent)	
	Prime rate	Federal funds rate
1976	6.84	5.05
1977	6.82	5.54
1978	9.06	7.93
1979	12.67	11.19
1980	15.27	13.36
1981	18.87	16.39

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Business Conditions Digest, for January 1979, January 1980, February 1981, and February 1982.

Table 333.-- CONSUMER CREDIT OUTSTANDING AT BANKS: 1979 TO 1981

[In millions of dollars. As of December 31.]

Type of credit	1979	1980	1981
Total	707.2	799.8	806.5
Credit card and related plans	150.8	170.2	184.3
Automobile loans	199.2	222.8	216.9
Home improvement loans	59.8	75.5	84.0
Other installment loans	211.9	214.6	229.3
Single payment loans	85.5	116.7	92.0

Source: Bank of Hawaii Economics Division, "Consumer credit loans slowed down in 1980," Sunday Star-Bulletin and Advertiser, March 22, 1981, p. F7, and records.

Table 334.-- CREDIT UNIONS: 1976 TO 1981

[As of December 31.]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)
1976	162	499,648,355	442,943,395
1977	158	599,929,674	535,493,101
1978	158	704,130,075	626,367,918
1979	159	755,417,266	667,505,910
1980 1/ .	156	800,472,936	714,315,177
1981	152	826,741,896	741,883,222

1/ Revised from 1981 edition, table 326.
Source: Hawaii Credit Union League, records.

Table 335.-- HAWAII RESIDENTS HOLDING SHARES IN U.S. PUBLIC CORPORATIONS OR INVESTMENT COMPANIES: 1959 TO 1981

Year	Shareowners
1959	13,000
1962	18,000
1965	39,000
1970	74,000
1975	58,000
1980 1/	175,000
1981	174,000

1/ Revised.

Source: New York Stock Exchange, Inc., Shareownership in America 1959 (p. 27), Shareownership U.S.A., 1965 Census of Shareowners (p. 22), Shareownership - 1970, Census of Shareowners (p. 20), Shareownership 1975 (p. 19), Shareownership 1980 (p. 19), and Shareownership 1981 (p. 21).

Table 336.-- STOCKHOLDINGS OF HAWAII RESIDENTS IN SELECTED MAJOR HAWAII COMPANIES: 1981

[Includes individuals, corporations, trusts, and trust company nominee accounts which have Hawaii addresses-of-record. Only common stock is considered. Excludes shares owned by residents in any non-Hawaii-based broker's name. As of December 31, 1981 unless otherwise noted.]

Company	Hawaii shareholders		Shares held in Hawaii		Market value of shares held in Hawaii 1/ (thousands of dollars)	Annual dividends to Hawaii shareholders 1/ (thousands of dollars)
	Number	Percent of company total	Number (thousands)	Percent of company total		
Amfac, Inc.	3,927	35.8	1,287	9.1	34,106	1,853
Castle & Cooke, Inc. 2/	4,655	15.9	3,102	11.4	31,796	2,482
Dillingham Corporation	4,031	38.0	4,600	33.4	60,950	3,220
Pacific Resources, Inc.	2,806	66.4	6,975	66.6	103,753	3,906
Alexander & Baldwin, Inc. 3/	3,944	50.8	3,913	42.5	89,021	7,043
Hawaiian Electric Co., Inc. .	12,529	57.9	2,303	32.2	57,575	6,541
Bancorp Hawaii, Inc. 4/	2,372	58.9	2,739	36.0	51,014	2,903
First Hawaiian, Inc.	1,412	62.6	2,144	63.9	63,248	5,146
Maui Land & Pineapple Co., Inc.	230	18.8	1,365	75.8	40,950	505

1/ Based on prices (last trade or bid) and dividend rates as of December 31, 1981.
2/ As of June 11, 1982.
3/ As of February 11, 1982.
4/ As of August 19, 1982.
Source: Compiled by the Hawaii State Department of Planning and Economic Development from data supplied by the companies listed.

Table 337.-- INSURANCE BUSINESS TRANSACTED IN HAWAII: 1970 TO 1980

[Includes data for all insurance companies, life or other, authorized in Hawaii.]

Year	Number of companies authorized, Dec. 31	Premiums paid ($1,000)	Losses, claims and benefits paid ($1,000)	Cumulative net investments in Hawaii Dec. 31 1/ ($1,000)
1970	469	246,986	114,011	977,535
1971	485	276,707	119,880	1,168,952
1972	502	303,954	124,502	1,282,566
1973	517	316,897	132,102	1,354,145
1974	534	331,146	155,272	1,487,228
1975	537	380,480	170,561	1,634,549
1976	542	421,545	192,547	1,771,556
1977	546	488,437	225,675	1,944,507
1978	556	555,392	240,320	2,076,291
1979	579	617,571	280,598	2,234,252
1980	594	682,306	352,515	2,561,217

1/ Does not include balances in Hawaii banks.

Source: Hawaii State Department of Regulatory Agencies, Report of the Insurance Commissioner of Hawaii (annual).

Table 338.-- LIFE INSURANCE BUSINESS TRANSACTED IN HAWAII: 1970 TO 1980

Year	Number of companies, 1/ Dec. 31	Insurance written 2/ ($1,000)	Insurance in force, Dec. 31 ($1,000)	Premiums ($1,000)	Losses, claims, and benefits paid ($1,000)
1970 ...	223	1,376,907	7,441,077	98,360	40,267
1971 ...	233	1,565,272	8,127,837	106,524	45,301
1972 ...	239	1,484,039	8,788,361	115,491	44,661
1973 ...	262	1,935,643	9,433,897	120,229	47,980
1974 ...	270	2,614,259	11,383,173	130,102	54,009
1975 ...	279	2,046,479	12,650,488	138,597	53,291
1976 ...	283	2,269,602	13,560,838	148,977	65,312
1977 ...	285	2,432,658	14,680,847	161,725	63,040
1978 ...	291	2,814,838	15,803,154	172,999	64,391
1979 ...	311	2,999,500	17,122,778	186,487	74,627
1980 ...	318	3,694,867	19,131,180	197,394	82,333

1/ Authorized in Hawaii, including fraternal benefit societies. Before 1973, limited to number transacting life insurance business during the year.

2/ Includes insurance revived, increased, or transferred.

Source: Hawaii State Department of Regulatory Agencies, Report of the Insurance Commissioner of Hawaii (annual), and records.

Table 339.-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1980

[In dollars.]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	682,306,115	352,514,924
Life 1/	196,411,863	82,002,185
Fraternal	982,021	331,045
Fire, marine, casualty, and miscell.:		
Accident and health	60,150,232	35,628,550
Fire	17,494,613	9,412,001
Allied lines	6,810,648	10,616,240
Homeowners multiple peril	25,210,802	25,986,492
Commercial multiple peril	7,138,961	256,362
Private passenger auto no-fault	26,386,958	17,252,721
Other private passenger auto liability	68,622,818	41,633,823
Commercial auto no-fault	4,368,917	3,301,525
Other commercial auto liability	19,272,352	13,190,806
Private passenger auto physical damage	52,139,654	36,026,501
Commercial auto physical damage	8,213,612	6,409,609
Workers' compensation	100,199,077	44,283,071
Other liability	33,660,114	12,424,792
Medical malpractice	4,797,078	1,010,930
Glass	424,262	281,713
Burglary and theft	1,558,075	605,094
Boiler and machinery	1,123,479	408,189
Fidelity and surety	10,199,204	2,665,544
Ocean marine	5,408,063	3,104,815
Inland marine	8,102,171	4,006,647
Earthquake	227,958	-
All other	11,024,524	946,314
Surplus lines	12,378,659	729,955

1/ Excludes annuities and $827,805 in premiums for insurance on nonresidents.

2/ Includes extended coverage; tornado, windstorm and hail; sprinkler and water damage; explosion, riot and civil commotion; growing crops; flood; rain; and damage from aircraft and vehicle.

3/ Aircraft (all risks); title, credit, mortgage guaranty; livestock; service fees, excess of loss.

Source: Hawaii State Department of Regulatory Agencies, Report of the Insurance Commissioner of Hawaii, 1981, p. 5.

Table 340.-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY LOCATION OF HOME OFFICE: 1980

[Money amounts in millions of dollars. For insurance companies authorized in Hawaii.]

Subject	All companies	Domestic	Foreign	Alien (U.S. business only)
Number of companies	594	17	558	19
Financial condition, Dec. 31:				
Assets	571,080.6	496.6	560,937.4	9,646.6
Liabilities exc. capital and surplus	504,803.0	383.0	495,969.7	8,450.2
Policyholder's surplus inc. capital	66,277.6	113.6	64,967.6	1,196.4
Capital	2,330.6	14.3	2,293.7	22.6
Net gain or loss	2,133.6	-6.8	2,259.0	-118.6
Hawaii business:				
Direct premiums written	721.6	212.2	487.0	22.3
Claims and benefits paid	399.4	121.6	268.1	9.7
Investments in Hawaii, Dec. 31 1/	2,561.2	119.0	2,408.7	33.5
Mortgage loans (principal indebtedness)	1,426.3	56.0	1,354.1	16.2
Collateral loans (amount lent)	4.7	0.7	3.9	-
State and county bonds 2/	216.5	9.7	206.1	0.7
Utilities stocks and bonds 2/	188.2	14.6	160.8	12.8
Industrial and misc. stocks and bonds 2/	626.8	30.2	592.9	3.7
Real estate 2/	98.7	7.7	90.9	0.1
Balances in Hawaii banks	20.8	16.9	3.9	0.0

1/ Does not include balances in Hawaii banks.

2/ Market value (less encumbrances for real estate).

Source: Report of the Insurance Commissioner of Hawaii 1981, pp. 12-14 and 16-35.

Table 341.-- HEALTH INSURANCE: 1978 TO 1980

Subject	1978	1979	1980
Protected population (thousands): 1/			
Hospital expense	762	796	767
Surgical expense	727	751	719
Physician's expense	698	711	676
Major medical expense	85	81	71
Health insurance benefit payments (millions of dollars), total	241	273	328
Insurance companies	46	49	48
Other hospital-medical plans	195	224	280
Health insurance premiums (millions of dollars), total	260	304	358
Insurance companies	50	55	62
Other hospital-medical plans	210	249	296
Community hospital costs:			
Average length of hospital stay (days)	7.3	7.5	7.5
Average cost (dollars):			
Per patient day	233	264	246
Per patient stay	1,698	1,978	1,844

1/ Number of persons under age 65 protected by hospital, surgical, physician's expense, and major medical expense coverage, as of December 31 (unduplicated).

Source: Health Insurance Association of America, Source Book of Health Insurance Data for 1979-1980, 1980-1981, and 1981-1982.

Table 342.-- PREPAID HEALTH PLANS: 1970 TO 1981

Year	Hawaii Medical Service Association		Kaiser Foundation Health Plan			Commercial carrier premiums 1/ ($1,000)
	Persons covered, end of year 2/	Membership dues 3/ ($1,000)	Persons covered 2/		Membership dues ($1,000)	
			Annual average	End of year		
1970 ..	393,546	35,389	82,721	87,008	9,372	23,000
1971 ..	404,293	42,443	89,934	94,009	11,503	26,556
1972 ..	417,305	48,759	95,226	95,877	13,227	29,097
1973 ..	432,905	55,209	96,057	96,242	14,779	31,200
1974 ..	451,583	64,138	97,202	98,184	16,309	33,176
1975 ..	474,265	79,827	100,766	101,827	18,592	35,564
1976 ..	484,295	97,882	103,364	104,785	21,879	42,601
1977 ..	507,709	113,335	106,217	107,592	25,614	46,124
1978 ..	515,439	127,744	110,191	113,388	28,883	51,741
1979 ..	528,362	146,775	115,225	115,963	34,514	57,515
1980 4/	537,281	175,035	116,118	117,409	38,566	60,150
1981 ..	537,684	206,675	119,407	122,985	44,658	(NA)

NA Not available.

1/ For accident and health insurance.

2/ Subscribers and dependents, whether on a group or individual basis.

3/ Excludes investment income, membership fees, etc.

4/ Corrected from 1981 edition, table 334.

Source: Hawaii Medical Service Association, records; Kaiser Foundation Health Plan, Inc., records; Report of the Insurance Commissioner (annual)

Table 343.-- FIRE CHARACTERISTICS, FOR THE CITY AND COUNTY OF HONOLULU: 1971 TO 1981

[Years ended June 30.]

Year	Fire alarms				Fire deaths	Fire losses (dollars)
	Total alarms	Fires	False alarms	Needless alarms 1/		
1971 ..	5,679	3,868	1,811	-	8	5,032,081
1972 ..	6,379	3,952	1,838	589	7	3,527,052
1973 ..	7,415	4,930	1,807	678	8	12,962,159
1974 ..	6,132	3,685	1,812	635	11	6,391,520
1975 ..	7,064	4,316	2,057	691	5	7,303,404
1976 ..	8,157	5,278	2,166	713	7	7,369,820
1977 ..	8,225	5,451	2,061	713	5	7,008,431
1978 ..	7,876	5,258	1,858	760	5	9,975,951
1979 ..	8,497	5,962	1,861	674	7	8,027,335
1980 ..	8,749	6,701	1,423	625	13	11,897,724
1981 ..	7,564	6,084	810	670	9	15,071,355

1/ Non-fire incidents, such as smoke scares or overheated food.

Source: Annual Report of the Fire Department, City and County of Honolulu (annual), and records.

Table 344.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS: 1973 TO 1980

[Data refer to establishments with taxable payrolls during the first quarter of the year. An "establishment" is a single physical location where business is conducted or where service or industrial operations are performed. Coverage excludes government and self-employed workers.]

Year	Number of employees 1/	Payroll ($1,000)		Number of establishments, by employment-size class		
		First quarter	Annual	Total	1 to 4	5 to 9
1973	236,606	444,491	1,885,174	16,298	(NA)	(NA)
1974 2/	248,859	478,032	2,081,578	16,957	9,045	3,249
1975	252,254	543,590	2,274,957	17,095	9,041	3,317
1976	252,252	577,390	2,412,122	17,271	9,135	3,359
1977	263,079	630,090	2,637,726	18,660	9,942	3,741
1978	282,256	699,638	2,966,228	19,222	9,849	3,991
1979 3/	302,763	809,676	3,451,980	20,621	10,568	4,285
1980	312,025	921,634	3,809,101	21,125	10,928	4,346

Year	Number of establishments by employment-size class -- Con.					
	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 or more
1973	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1974	2,230	1,558	553	234	53	39
1975	2,305	1,546	565	226	56	39
1976	2,332	1,544	566	248	49	38
1977	2,397	1,642	589	257	52	40
1978	2,695	1,721	602	264	57	43
1979 3/	2,866	1,864	653	281	54	50
1980	2,868	1,906	666	311	55	45

NA Not available.

1/ For week including March 12.

2/ Totals for number of employees, payroll, and total number of establishments are revised figures, but data on number of establishments by size are unrevised and add to 16,961 rather than 16,957.

3/ Revised from 1981 edition, table 337.

Source: U.S. Bureau of the Census, County Business Patterns (annual).

Table 345.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY COUNTIES: 1978 TO 1980

[Excludes government employees and self-employed persons.]

Year and county	Number of establishments	Number of employees, mid-March	Payroll ($1,000)	
			First quarter	Annual
1978				
State total	19,222	282,256	699,638	2,966,228
Hawaii	1,963	22,144	50,321	214,147
Honolulu	14,625	229,478	581,178	2,453,332
Kauai	828	9,723	21,942	94,501
Maui	1,706	20,853	46,135	199,811
Statewide	100	58	61	4,439
1979 1/				
State total	20,621	302,763	809,676	3,451,980
Hawaii	2,106	23,614	58,556	247,989
Honolulu	15,761	244,417	669,379	2,853,145
Kauai	892	11,404	26,566	113,916
Maui	1,858	23,313	55,154	236,865
Statewide	4	15	21	67
1980				
State total	21,125	312,025	921,634	3,809,101
Hawaii	2,146	23,881	65,520	278,399
Honolulu	16,153	252,617	764,871	3,145,265
Kauai	903	12,031	31,416	133,964
Maui	1,864	23,422	59,513	248,852
Statewide	59	74	314	2,621

1/ Revised from 1981 edition, table 338, p. 357.

Source: U.S. Bureau of the Census, County Business Patterns, 1979, Hawaii, CBP-79-13 (May 1981), p. 17, and County Business Patterns, 1980, Hawaii, CBP-80-13 (July 1982), p. 17.

Table 346.-- CHARACTERISTICS OF BUSINESS UNITS, BY MAJOR INDUSTRY GROUP: 1979 TO 1980

[Excludes government and self-employed workers.]

Major industry group	Number of establishments	Number of employees, mid-March	Payroll ($1,000)	
			First quarter	Annual
1979 1/				
Total	20,621	302,763	809,676	3,451,980
Agricultural services, forestry, fisheries	204	1,625	3,713	16,741
Mining	6	206	863	4,291
Contract construction	1,674	23,970	99,644	439,599
Manufacturing 2/	846	24,730	73,340	315,162
Food and kindred products	196	10,248	29,370	130,268
Apparel and other textile products	147	3,931	6,726	28,942
Transportation and other public utilities	871	29,766	121,953	531,935
Wholesale trade	1,586	16,845	54,427	231,835
Retail trade 2/	5,666	83,410	151,041	626,606
Eating and drinking places	1,571	32,685	42,977	178,457
Finance, insurance, and real estate	2,815	27,783	79,374	346,132
Services 2/	5,917	91,651	221,101	914,474
Hotels and other lodging places	212	23,847	53,547	214,166
Health services	1,297	15,900	53,169	222,849
Nonclassifiable establishments	1,036	2,777	4,220	25,207
1980				
Total	21,125	312,025	921,634	3,809,101
Agricultural services, forestry, fisheries	213	1,771	4,391	19,558
Mining	6	225	1,125	4,638
Contract construction	1,646	26,184	117,312	480,397
Manufacturing 2/	831	25,515	79,488	335,255
Food and kindred products	192	10,875	29,699	136,866
Apparel and other textile products	134	3,893	7,366	29,659
Transportation and other public utilities	888	29,634	140,859	573,025
Wholesale trade	1,603	17,107	61,032	257,655
Retail trade 2/	5,630	84,153	165,830	680,625
Eating and drinking places	1,577	33,749	47,529	191,773
Finance, insurance, and real estate	2,969	29,593	92,696	387,109
Services 2/	6,178	94,777	253,529	1,043,437
Hotels and other lodging places	209	25,094	60,623	238,927
Health services	1,385	17,477	62,770	261,369
Nonclassifiable establishments	1,156	3,066	5,372	27,402

Footnotes and source on next page.

Table 346.-- CHARACTERISTICS OF BUSINESS UNITS, BY MAJOR INDUSTRY GROUP: 1979 TO 1980 - Con.

1/ Revised from 1981 edition, table 339, p. 359.

2/ Includes subgroups not shown separately.

Source: U.S. Bureau of the Census, County Business Patterns, 1980, Hawaii, CBP-80-13 (July 1982), pp 1-2.

Table 347.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY EMPLOYMENT-SIZE CLASS: 1980

[Excludes government employees and self-employed persons.]

Employment-size class	Number of establishments	Number of employees	Annual payroll ($1,000)
Total	21,125	312,025	3,809,101
1 to 4	10,928	22,454	296,339
5 to 9	4,346	31,302	322,803
10 to 19	2,868	41,608	437,866
20 to 49	1,906	59,824	669,264
50 to 99	666	46,176	535,470
100 to 249	311	46,623	615,488
250 to 499	55	19,731	240,507
500 to 999	26	18,294	246,541
1,000 or more	19	26,013	444,823

Source: U.S. Bureau of the Census, County Business Patterns, 1980, Hawaii, CBP-80-13 (July 1982), pp. 3 and 11.

Table 348.-- CHARACTERISTICS OF SMALL BUSINESSES: FOURTH QUARTER 1981

[Small businesses defined as nongovernmental employing units with fewer than 100 employees covered by the Hawaii Employment Security Law.]

Industry	No. of employing units	Employees (1,000)	Total wages (million dollars)	Percent of total industry 1/		
				Units	Employees	Wages
All industries	19,695	175.3	586.6	97.6	53.9	51.6
Agriculture	363	3.9	11.5	94.3	34.7	27.1
Construction and mining	1,692	14.5	85.4	98.4	73.0	71.8
Manufacturing	725	9.9	35.6	93.7	44.4	38.8
Transportation, communication, utilities	906	12.6	47.3	94.5	39.3	28.7
Wholesale trade	1,713	16.2	65.3	99.1	87.0	82.7
Retail trade	4,472	51.0	109.4	97.3	56.5	53.6
Finance, insur., real est. ..	2,864	17.7	65.7	98.3	55.8	54.9
Services	6,907	49.2	165.8	97.9	49.8	52.5
Nonclassifiable	53	0.2	0.6	100.0	100.0	100.0

1/ Small business as percent of all business, by industry.

Source: Hawaii State Department of Labor and Industrial Relations, special tabulation of ES-202 records, July 1982.

Table 349.-- REGISTERED CORPORATIONS AND PARTNERSHIPS: 1979 TO 1982

[Excludes eleemosynary corporations.]

Subject	1979	1980	1981	1982
Domestic (Hawaii) corporations:				
Formed 1/	3,233	3,450	3,386	3,126
Dissolved or merged 2/	1,168	1,621	267	1,436
On record, June 30	21,088	22,917	24,726	26,416
Foreign (non-Hawaii) corporations:				
Qualified 1/	480	476	454	468
Withdrawn, merged, or cancelled 2/	385	217	79	328
On record, June 30	3,149	3,408	3,583	3,723
Partnerships:				
Registered 1/	1,939	1,775	1,938	1,841
Dissolved or cancelled 2/	1,334	1,044	384	1,827
On record, June 30	6,965	7,696	8,194	8,208

1/ Annual totals for fiscal years ended June 30.

2/ Annual totals for fiscal years ended June 30. Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

Source: Hawaii State Department of Commerce and Consumer Affairs, Business Registration Division, records.

Table 350.-- CORPORATIONS, TAXABLE AND NONTAXABLE: 1975 TO 1978

Subject	Fiscal year ended in --			
	1975	1976	1977	1978
Number of corporations	10,966	11,611	12,160	13,127
Taxable	5,441	5,445	7,216	6,924
Nontaxable	5,525	6,166	4,944	6,203
Business receipts 1/	9,095	9,619	11,308	12,215
Taxable corporations 1/	6,439	6,578	7,652	9,034
Nontaxable corporations 1/	2,657	3,041	3,656	3,181
Taxable income, excluding net losses 2/	498.1	396.8	418.9	560.9

1/ In millions of dollars.

2/ In millions of dollars. Includes taxable income reported by Small Business Corporations, taxable to individual stockholders only.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns--Corporations (annual reports), and data provided July 15, 1982.

Table 351.-- PROPRIETORSHIPS: 1975 TO 1979

Subject	1975	1977	1979 1/
Number of businesses, total	40,427	42,343	42,380
With net profit	28,096	27,859	30,929
With net loss	12,331	14,484	11,451
Business receipts, total ($ million)	660.4	840.2	1,042.6
Businesses with net profit ($ million)	593.7	706.5	894.4
Businesses with net loss ($ million)	66.6	133.7	148.2
Net profit reported ($ million)	180.3	251.3	272.0
Net loss reported ($ million)	27.3	38.7	60.2

1/ Preliminary.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns--Proprietorships (biennial report), and data provided July 15, 1982.

Table 352.-- TOTAL REVENUES AND NET INCOME OF SELECTED MAJOR CORPORATIONS IN HAWAII: 1980 AND 1981

[In millions of dollars.]

Corporation	Total revenues		Net income	
	1980	1981	1980	1981
Amfac, Inc.	1,922.4	2,148.0	76.1	44.2
Castle & Cooke, Inc. 1/	1,733.5	1,807.1	32.1	30.9
Dillingham Corporation	1,333.4	1,627.2	38.2	30.9
Pacific Resources, Inc.	838.1	1,081.5	20.7	17.1
Hawaiian Electric Co., Inc.	429.9	665.2	26.3	30.1
Alexander & Baldwin, Inc.	461.3	385.2	71.9	24.4
C. Brewer & Co., Ltd.	361.4	314.7	(NA)	(NA)
Bancorp Hawaii, Inc.	240.5	322.1	25.1	25.9
Hawaiian Telephone Company	287.8	310.0	41.2	43.8
First Hawaiian, Inc.	192.1	249.3	17.0	18.1
Hawaiian Airlines, Inc.	104.5	98.7	-2.4	5.3
Maui Land & Pineapple Co., Inc.	102.4	85.9	1.7	-1.1
Aloha Airlines, Inc.	81.6	84.9	4.9	2.6
Amelco Corporation	81.3	74.2	1.9	2.0
American Security Bank	41.0	49.7	3.2	2.3
Central Pacific Bank	40.1	47.4	1.7	1.3
Interisland Resorts, Ltd.	41.6	44.6	-3.0	-4.3
Crown Corporation	34.6	39.3	1.0	1.2
City Bank	28.3	36.2	2.0	1.6
Liberty Bank	22.2	24.6	0.7	0.3
Hawaii National Bank	15.7	19.0	0.1	-0.8
Hawaiian Trust Co., Ltd.	8.1	9.4	1.1	1.2
Mid Pacific Airlines 2/	-	7.9	-	-1.1
Bank of Honolulu	3.9	5.0	0.4	0.4

NA Not available.

1/ 1980 data are for 53 weeks ended January 3, 1981. 1981 data are for 52 weeks ended January 2, 1982.

2/ Began operations in March 1981; figures cover 10 1/2 months.

Source: "Isle Corporations -- the Ups 'n Downs," The Sunday Star-Bulletin and Advertiser, March 14, 1982, p. K-8; and compilations by the Hawaii State Department of Planning and Economic Development from corporate annual reports.

Table 353.-- WOMEN-OWNED BUSINESSES, BY INDUSTRY: 1977

[A firm was considered to be women-owned if the sole owner or at least half of the partners were women; a corporation was classified as women-owned if 50 percent or more of the shares were owned by women.]

Industries	All firms		With paid employees			
	Firms (number)	Gross receipts ($1,000)	Firms (number)	Employees 1/ (number)	Annual payroll ($1,000)	Gross receipts ($1,000)
All industries	4,815	165,127	732	4,080	23,621	127,284
Wholesale trade	131	15,970	31	137	1,303	13,367
Retail trade	1,785	86,552	389	2,376	11,830	70,860
Selected services	1,933	30,236	202	948	5,741	19,542
Other and not classified	966	32,369	110	619	4,747	23,515

1/ For week including March 12.

Source: U.S. Bureau of the Census, 1977 Economic Censuses, WB77-1, Women-Owned Businesses (May 1980), p. 39.

Table 354.-- INDUSTRIAL AND COMMERCIAL FAILURES: 1977 TO 1980

Year	Number	Current liabilities (million dollars)
1977	9	1.8
1978	31	9.0
1979	38	8.7
1980	83	21.6

Source: Data from Dun & Bradstreet, Inc., cited in Statistical Abstract of the United States for 1979 (p. 575), 1980 (p. 576), and 1981 (p. 538).

Section 16

COMMUNICATIONS

This section presents statistics on the usage, finances, and operations of the various communications media: postal service, telephone, telegraph, radio, television, newspapers and periodicals, and books.

Hawaii is served by all major communications media. In 1981 it had 76 post offices handling 293 million pieces of mail and accounting for postal receipts in excess of $67 million. There were 728,000 telephones in service (double the number a dozen years earlier), 311,000 telephone homes, about 2 billion local calls originated, 12 million completed interisland calls, and over 32 million incoming and outgoing transpacific calls. Telegraph messages to and from Hawaii in 1981 totaled 196,000. The 45 commercial, public and educational radio stations in the Islands early in 1982 included 29 on the regular broadcast band and 16 FM stations. The State also had 16 television stations (14 commercial and 2 public), including satellites but excluding translators. Ten cable TV companies served 142,000 subscribers. An estimated 97 percent of all households had television sets, and evening programs in May 1982 were watched by an average of 157,000 households. Island publishers printed eight daily newspapers, numerous magazines and other periodicals, and a wide diversity of books. Newspaper circulation reported by the two English-language dailies on Oahu averaged 196,000 in 1981-1982, compared with 201,000 a decade earlier.

The major sources for statistics on communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, Division of Consumer Advocacy and CATV Division of the Hawaii State Department of Commerce and Consumer Affairs, Hawaiian Telephone Company, Audit Bureau of Circulations, A. C. Nielsen Co., and Hawaii Media Guide. Earlier figures appear in Historical Statistics of Hawaii, Section 18. Data on communications for other States and for the nation as a whole are carried in Statistical Abstract of the United States: 1981, Section 19.

Table 355.-- POSTAL SERVICE: 1971 TO 1981

[For fiscal years ended June 30 through 1976 and September 30 thereafter.]

Fiscal year	Number of post offices 1/	Gross postal receipts ($1,000)	Pieces of mail 2/ (millions)
1971	80	21,976	201
1972	78	23,434	215
1973	77	27,100	226
1974	76	29,663	233
1975	76	33,549	238
1976	76	37,433	242
1977	76	43,790	249
1978	76	49,198	267
1979	76	55,267	276
1980	76	58,413	298
1981	76	67,055	293

1/ At end of period. Includes all 1st-, 2nd-, 3rd-, and 4th-class post offices; excludes branches and stations.

2/ Originating in Hawaii. Mail originating elsewhere is excluded.

Source: U.S. Postal Service, Honolulu, records.

Table 356.-- NUMBER OF POST OFFICES, BY ISLANDS: SEPTEMBER 30, 1981

[Includes all 1st-, 2nd-, and 4th-class post offices; excludes branches and stations.]

Island	Post offices
State total	76
Hawaii	28
Maui	10
Lanai	1
Molokai	5
Oahu	17
Kauai	15
Niihau	-
Other islands	-

Source: U.S. Postal Service, Honolulu, data supplied January 21, 1982.

Table 357.-- TELEGRAPH MESSAGES: 1971 TO 1981

Year	Total messages	From Hawaii to Mainland			From Mainland to Hawaii		
		Total from Hawaii	Originated in Hawaii	Originated elsewhere	Total to Hawaii	Originated on Mainland	Originated elsewhere
1971	419,188	201,600	135,581	66,019	217,588	154,506	63,082
1972	392,596	189,214	122,792	66,422	203,382	141,682	61,700
1973 1/	385,823	187,130	116,850	70,280	198,693	136,747	61,946
1974	382,281	185,204	100,321	84,883	197,077	125,319	71,758
1975	346,851	166,700	81,986	84,714	180,151	110,390	69,761
1976	307,036	156,235	70,692	85,543	150,801	80,638	70,163
1977	277,748	142,903	61,512	81,391	134,845	70,826	64,019
1978	271,747	137,687	54,505	83,182	134,060	69,055	65,005
1979	262,888	134,265	50,522	83,743	128,623	65,598	63,025
1980	222,410	120,785	43,543	77,242	101,625	46,564	55,061
1981	196,350	106,248	34,432	71,816	90,102	37,924	52,178

1/ Corrected from previous editions of the Data Book.

Source: Federal Communications Commission, Common Carrier Bureau, records.

Table 358.-- TELEPHONES IN SERVICE AND RESIDENCE MAIN STATIONS: 1971 TO 1981

Year	Telephones in service December 31,			Residence main stations, Dec. 31
	State total	Oahu	Other islands	
1971	445,995	365,733	80,262	212,983
1972	498,593	412,443	86,150	221,277
1973	523,699	430,612	93,087	231,146
1974	544,718	444,359	100,359	239,923
1975	567,685	460,602	107,083	250,319
1976	596,952	480,937	116,015	262,982
1977	627,848	501,914	125,934	273,860
1978	659,141	523,472	135,669	285,948
1979	684,812	539,582	145,230	296,433
1980	712,095	555,790	156,305	303,928
1981	728,352	563,630	164,722	311,430

Source: Hawaiian Telephone Company, records, for 1971 through 1980; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records, for 1981.

Table 359.-- TELEPHONE CALLS: 1973 TO 1981

[In thousands.]

Year	Local 1/		Interisland		Transpacific (paid)	
	Originating	Completed	Paid 2/	Completed	Outgoing	Incoming and outgoing 3/
1973	1,379,709	931,304	3,754	3,805	3,795	6,814
1974	1,438,381	949,332	4,494	4,564	4,775	8,620
1975	1,395,876	918,486	5,156	5,352	5,908	10,703
1976	1,517,337	1,012,064	5,851	6,140	7,448	13,621
1977	1,566,869	1,052,936	6,838	7,028	9,485	17,103
1978	1,719,200	1,139,829	8,087	8,317	12,232	22,540
1979	1,830,954	1,186,458	9,635	10,040	15,160	4/ 28,076
1980	1,957,427	1,468,070	10,652	11,239	17,199	4/ 31,609
1981	(NA)	(NA)	11,316	11,993	(NA)	(NA)

NA Not available.

1/ Revised from 1978 edition, table 262. For a discussion of these revisions and annual comparability of data before 1973, see 1979 edition, table 248.

2/ Excludes uncollectables.

3/ Includes calls paid in Hawaii and elsewhere.

4/ Revised from 1981 edition, table 350.

Source: Hawaiian Telephone Company, records, for 1973 through 1980; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records, for 1981.

Table 360.-- TELEPHONE SERVICE, BY ISLANDS: 1981

Island	Telephones in service, Dec. 31,	Main stations, Dec. 31		Inter-island calls 1/
		Residence	Business	
State total ..	728,352	311,430	81,499	11,992,843
Oahu	563,630	241,261	62,304	5,539,848
DATS 2/	27,676	-	12,497	...
Other Oahu	535,954	241,261	49,807	...
Other islands	164,722	70,169	19,195	6,452,995
Hawaii	70,183	30,735	8,440	2,698,799
Maui	58,875	24,225	6,524	2,384,111
Lanai	916	646	103	...
Molokai	3,652	1,759	440	...
Kauai	31,096	12,804	3,688	1,370,085

1/ Number completed, by island of origination. Oahu total includes Lanai and Molokai.

2/ Defense Administrative Telephone System.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 361.-- COMMERCIAL AND NON-COMMERCIAL RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION: JUNE 30, 1982

Kind of station	Commercial stations	Non-commercial stations
Radio, AM	29	-
Radio, FM	14	2
Television	14	2

Source: Federal Communications Commission, Broadcast Bureau, Broadcast Facilities Division, information supplied July 15, 1982.

Table 362.-- BROADCAST REVENUES AND EXPENDITURES OF COMMERCIAL RADIO AND TELEVISION STATIONS: 1979

[The Federal Communications Commission, the source for these statistics, discontinued their compilation after the release of the 1979 data.]

Category	Number of stations		Broadcast revenues (dollars)	Broadcast expenses (dollars)
	In operation	Reporting		
Radio 1/	36	32	12,977,465	13,444,053
Television 2/ ..	10	6	22,333,491	20,930,128

1/ AM and FM stations counted as one station.
2/ Includes satellites.
Source: Federal Communications Commission, Broadcast Bureau, Policy and Rules Division, Policy Analysis Branch, information supplied June 5, 1981.

Table 363.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1980 AND 1981

County	Number of companies Dec. 31 1/		Subscribers, Dec. 31		Gross revenue ($1,000)	
	1980	1981	1980	1981	1980	1981
State total	10	10	128,719	141,507	16,191	16,535
Hawaii	3	3	14,296	15,156	1,865	2,038
Maui	2	2	8,853	9,874	943	1,152
Honolulu 2/	5	4	103,341	114,325	13,024	12,936
Kauai 3/	1	2	2,229	2,152	359	408

1/ State totals are unduplicated figures; one company provided service to both Hawaii and Maui Counties.

2/ Honolulu Television and Communications Corporation purchased Oceanic Cablevision, Inc., and Pacific Cablevision, Inc., on March 31, 1981.

3/ Seven Twenty Limited Partnership was granted a permit on August 4, 1981, but had not begun service by the end of the year.

Source: Hawaii State Department of Commerce and Consumer Affairs, CATV Division, records.

Table 364.-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREAS: JANUARY 1982

Geographic area	Total households	Television households	
		Number	Percent
State total ...	310,700	300,560	96.7
Oahu	242,000	235,660	97.4
Other islands	68,700	64,900	94.5

Source follows next table.

Table 365.-- AVERAGE NUMBER OF TELEVISION VIEWERS, BY TIME OF DAY: FEBRUARY 1982 AND MAY 1982

[In thousands.]

Time of day	Days of week	Households 1/		Persons 2/	
		Feb. 1982	May 1982	Feb. 1982	May 1982
7 A.M. to 9 A.M.	Mon.-Fri.	41	38	57	55
9 A.M. to noon	Mon.-Fri.	35	36	46	46
Noon to 3:30 P.M.	Mon.-Fri.	62	56	82	75
3:30 to 5:00 P.M.	Mon.-Fri.	65	64	110	106
5:00 to 6:30 P.M.	Mon. Fri.	144	131	251	232
6:30 to 7:00 P.M.	Mon.-Fri.	162	145	323	286
7:00 to 10:00 P.M.	Mon.-Fri.	170	157	330	308
10:00 to 10:30 P.M.	Mon.-Fri.	141	125	232	213
10:30 P.M. to midnight ..	Mon.-Fri.	62	53	91	79
7 A.M. to 1 A.M.	Sat.-Sun.	81	75	139	129
6:30 to 10:00 P.M.	Sat.-Sun.	166	148	327	293

1/ Average number of households with a TV set turned on.

2/ Average number of persons, 2 years old and over, in television households that are viewing any station.

Source: A.C. Nielsen Company, Viewers in Profile, Honolulu, HI (Including Satellite/Affiliate Areas) for February 1982 (pp. 5 and 7) and May 1982 (pp. 1, 5, and 7).

Table 366.-- PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS: 1971-72 TO 1981-82

[Averages for 12-month periods ended March 31.]

Year	Honolulu Advertiser 1/	Honolulu Star-Bulletin 1/	Sunday Star-Bulletin and Advertiser
1971-72 ...	74,915	126,027	179,910
1972-73 ...	74,248	128,132	184,359
1973-74 ...	76,763	130,532	190,037
1974-75 ...	75,613	119,691	183,783
1975-76 ...	73,834	115,145	183,566
1976-77 ...	77,442	118,925	191,903
1977-78 ...	79,501	118,883	195,594
1978-79 ...	82,958	119,205	201,649
1979-80 ...	83,478	118,340	201,445
1980-81 ...	83,721	115,814	201,301
1981-82 ...	83,825	112,011	197,135

Year	Hawaii Tribune-Herald		Maui News 2/	West Hawaii Today 3/
	Daily 4/	Sunday		
1971-72 ...	13,598	13,994	(NA)	2,182
1972-73 ...	14,187	14,534	(NA)	4,550
1973-74 ...	15,216	15,654	(NA)	4,746
1974-75 ...	15,710	16,303	(NA)	4,703
1975-76 ...	16,386	17,361	(NA)	4,736
1976-77 ...	16,424	17,548	13,220	4,592
1977-78 ...	16,440	17,950	13,561	4,625
1978-79 ...	16,964	18,651	14,975	5,053
1979-80 ...	17,825	19,555	15,109	5,977
1980-81 ...	18,450	20,104	15,281	6,537
1981-82 5/	18,912	20,531	13,965	6,804

NA Not available.

1/ Published daily, Monday through Saturday.

2/ Published 3 times weekly, September 1970 through May 1981, and 5 times weekly (Monday through Friday) beginning June 1, 1981.

3/ Published weekly, 1968-1974; twice weekly, 1974-1976; 3 times weekly, 1976-1982; and 5 times weekly, (Monday through Friday) beginning March 1, 1982.

4/ Published 5 times weekly, Monday through Friday.

5/ Maui News figure refers to 6-month period ended March 31, 1982.

Source: Hawaii Newspaper Agency, Inc., Hawaii Tribune-Herald, Maui News, and West Hawaii Today.

Table 367.-- PERIODICALS PUBLISHED IN HAWAII: 1981

Frequency	Newspapers 1/		Magazines and other periodicals
	English	Foreign language	
Daily, 5 to 7 times weekly	3	4	-
2 to 4 times weekly	4	-	1
Weekly	1	1	19
Semi-monthly or biweekly	1	1	16
Monthly	-	-	25
2 to 10 times annually	-	-	6

1/ The daily newspapers were: Honolulu Advertiser, Honolulu Star-Bulletin, and Hawaii Tribune-Herald (Hilo), all English-language; Hawaii Hochi and Hawaii Times, both bilingual (Japanese and English); Korea Times & Han Kook Ilbo (Korean language); and United Chinese Press (Chinese language). Since these data were compiled, the Maui News and West Hawaii Today have become dailies and the Hawaii Times has become a weekly.

Source: Aloha United Way, Hawaii Media Guide, 1981.

Table 368.-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY PRESS OF HAWAII: 1980 AND 1981

Year	Published titles 1/		New books and journals published 2/		Volumes sold 2/	Sales revenues 2/ (dollars)
	Cumulative total	In print	Books	Scholarly journals		
1980	588	474	37	5	187,795	894,184
1981	619	469	33	5	211,598	944,386

1/ As of June 30.

2/ Year ended June 30.

Source: The University Press of Hawaii, Annual Report (annual), and records.

Table 369.-- POSTAGE AND TELEGRAPH RATES AND NEWSPAPER PRICES, FOR HONOLULU: 1970 TO 1981

[In cents. As of July 1.]

Year	Domestic postage rates 1/			Telegraph rate per word 2/	Newspaper price 3/	
	Letters		Postal and post cards		Daily	Sunday
	First ounce	Each added ounce				
1970	6	6	5	21	10	25
1971	8	8	6	21	15	35
1972	8	8	6	21	15	35
1973	8	8	6	21	15	35
1974	10	10	8	21	20	45
1975	10	10	8	21	20	50
1976	13	11	9	21	20	50
1977	13	11	9	21	20	50
1978	15	13	10	21	20	50
1979	15	13	10	21	25	60
1980	15	13	10	21	25	60
1981	18	17	12	21	25	75

1/ Surface mail rates. Beginning in 1959, first-class mail was routinely airlifted to and from the Mainland, and, effective October 11, 1975, surface mail service was upgraded to the level of airmail throughout the nation. Domestic airmail service was discontinued as of May 1, 1977.

2/ Per full-rate word (non-coded) between Honolulu and the Mainland.

3/ Street sales, for the Honolulu Advertiser, Honolulu Star-Bulletin, and Sunday Star-Bulletin and Advertiser.

Source: Postal rates from Statistical Abstract of the United States: 1980, p. 582, as updated. Telegraph rates from Federal Communications Commission, records, and telegraph company Honolulu offices. Newspaper rates from mastheads.

Table 370.-- TELEPHONE RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1971 TO 1981

[In dollars. As of July 1. Including tax.]

Year	Local call, pay phone	Honolulu to Hilo		Honolulu to California		Monthly charge, indiv. res. line
		Direct dialing 1/	Through operator 2/	Direct dialing 1/	Through operator 2/	
1971 ..	0.10	...	0.99	...	4.29	9.90
1972 ..	0.10	0.99	0.99	4.29	4.29	10.12
1973 ..	0.10	0.97	0.97	3.27	4.25	10.63
1974 ..	0.10	0.97	0.97	2.59	3.40	10.53
1975 ..	0.10	0.96	0.96	2.57	3.37	10.17
1976 ..	0.10	0.95	0.95	2.39	3.34	10.07
1977 ..	0.10	0.94	0.94	1.86	2.84	9.98
1978 ..	0.15	0.94	0.94	1.84	2.81	11.86
1979 ..	0.15	0.90	0.90	1.61	2.55	11.74
1980 ..	0.15	1.06	1.89	1.64	2.60	11.63
1981 ..	0.15	1.06	1.89	1.64	2.60	11.63

1/ Daytime calls, first three minutes. Direct dialing was introduced January 16, 1972.

2/ Station-to-station operator-handled daytime weekday calls, first three minutes.

Source: Hawaiian Telephone Company, records.

Section 17

ENERGY AND SCIENCE

This section presents statistics on energy production and consumption, the electric and gas utility industries, and research and development and scientific resources.

Total energy consumption in 1979 amounted to 271 trillion British thermal units, compared with 204 trillion BTU a decade earlier. Transportation accounted for 58 percent of the 1979 total.

Electricity sales exceeded 6.4 billion kilowatt-hours in 1981, a total that has doubled since 1968. Manufactured gas sales reached 32.4 million therms in 1981, nine percent below the figure five years earlier. Residential rates in 1981 averaged 11.6 cents per kilowatt-hour and $1.73 per therm, both well above the corresponding rates only a few years earlier. Average residential use (7,002 kWh and 227 therms in 1981) has declined significantly in recent years. By 1981, almost seven percent of the housing units in the State had solar heating devices.

The liquid fuel tax base for 1981 was approximately 918 million gallons, compared with 825 million in 1974 and 755 million in 1970. The 1981 total included 306 million gallons of gasoline, 490 million of aviation fuel, and 117 million of diesel oil. The average price for unleaded gasoline rose from 69.6 cents per gallon in January 1976 to $1.633 six years later, then fell to $1.544 by May 1982.

The State is well served with scientific resources. A 1976 inventory reported 384 companies and agencies with research or scientific capabilities. Employment in these organizations was more than 34,000. Federal research and development obligations in Hawaii exceeded $42 million in 1980. Forty-nine patents were granted to Hawaii residents in 1981.

Information on energy and science can be obtained from reports and records of the U.S. Department of Energy, U.S. Patent and Trademark Office, National Science Foundation, Hawaii State Department of Taxation, Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy (formerly the Department of Regulatory Agencies, Public Utilities Division), and individual utility companies. Detailed statistics on energy consumption appear in Hawaii Integrated Energy Assessment, Vol. IV, Energy Data Handbook, published by the State Energy Office of the Department of Planning and Economic Development in 1980. Hawaii's Scientific Resources, 1977 Directory, issued by the DPED in 1977, contains information on scientific organizations and facilities in the Islands. Historical Statistics of Hawaii, Section 19, presents data for earlier years. Data for the nation as a whole can be found in the Statistical Abstract of the United States: 1981, Sections 20 and 21.

Table 371.-- CONSUMPTION OF ENERGY, BY TYPE (PHYSICAL UNITS): 1960 TO 1979

Year	Petroleum (1,000 barrels)	Hydro-electric power 1/ (million kWh)	Geo-thermal power 2/ (million kWh)	Wood and waste 2/ (million kWh)	Other types 3/
1960	20,754	0	0	0	0
1961	24,351	0	0	0	0
1962	21,990	0	0	0	0
1963	22,777	23	0	0	0
1964	24,328	115	0	0	0
1965	25,432	105	0	0	0
1966	27,100	112	0	2	0
1967	30,792	108	0	0	0
1968	33,793	94	0	30	0
1969	35,142	100	0	29	0
1970	36,124	108	0	24	0
1971	38,507	89	0	15	0
1972	39,535	91	0	18	0
1973	40,504	95	0	22	0
1974	38,366	92	0	30	0
1975	38,710	89	0	25	0
1976	39,169	93	0	29	0
1977	42,015	86	0	26	0
1978	42,015	84	0	0	0
1979	45,203	90	0	0	0

1/ Includes industrial and utility production, and net imports of electricity.

2/ Consumed at utilities to produce electricity.

3/ Coal, natural gas (dry), and nuclear power.

Source: U.S. Department of Energy, Statistics Branch, State Energy Data Report, Statistical Tables and Technical Documentation, 1960 Through 1979 (September 1981), p. 111.

Table 372.-- CONSUMPTION OF ENERGY, BY TYPE (TRILLION BTU): 1960 TO 1979

Year	Total energy consumed 1/	Petroleum	Hydro-electric power 2/	Geo-thermal power 3/	Wood and waste 3/	Other types 4/
1960	118.3	116.7	0.0	0.0	0.0	0.0
1961	137.9	137.8	0.0	0.0	0.0	0.0
1962	123.8	125.4	0.0	0.0	0.0	0.0
1963	126.9	130.2	0.2	0.0	0.0	0.0
1964	137.1	139.7	1.2	0.0	0.0	0.0
1965	144.6	146.7	1.1	0.0	0.0	0.0
1966	157.5	156.1	1.2	0.0	0.0	0.0
1967	178.7	178.0	1.1	0.0	0.0	0.0
1968	197.8	195.2	1.0	0.0	0.3	0.0
1969	204.3	201.7	1.0	0.0	0.3	0.0
1970	209.9	207.6	1.1	0.0	0.3	0.0
1971	223.6	221.1	0.9	0.0	0.2	0.0
1972	229.3	227.8	0.9	0.0	0.2	0.0
1973	236.0	233.4	1.0	0.0	0.2	0.0
1974	225.0	220.7	1.0	0.0	0.3	0.0
1975	227.9	222.8	0.9	0.0	0.3	0.0
1976	230.8	225.6	1.0	0.0	0.3	0.0
1977	244.5	242.7	0.9	0.0	0.3	0.0
1978	249.1	243.2	0.9	0.0	0.0	0.0
1979	271.3	265.2	0.9	0.0	0.0	0.0

1/ Detail may not add to indicated totals because of statistical adjustment, not shown separately.

2/ Includes industrial and utility production, and net imports of electricity.

3/ Consumed at utilities to produce electricity.

4/ Coal, natural gas (dry), and nuclear power.

Source: U.S. Department of Energy, Statistics Branch, *State Energy Data Report, Statistical Tables and Technical Documentation, 1960 Through 1979* (September 1981), p. 111.

Table 373.-- CONSUMPTION OF ENERGY BY END-USE SECTOR: 1960 TO 1979

[Trillion Btu.]

Year	Total energy consumed 1/	Residential 2/	Commercial 2/	Industrial 2/	Transportation 2/	Electric utilities 3/
1960	118.3	9.1	17.2	26.2	65.7	23.2
1961	137.9	9.2	21.0	30.4	77.4	24.4
1962	123.8	9.2	13.4	29.9	71.4	25.8
1963	126.9	9.1	11.5	29.4	76.9	27.6
1964	137.1	9.8	10.0	33.6	83.7	30.2
1965	144.6	10.7	10.9	36.8	86.2	31.6
1966	157.5	11.3	9.7	38.8	97.7	30.4
1967	178.7	12.4	10.1	44.2	112.0	31.9
1968	197.8	13.6	12.0	42.3	129.9	34.9
1969	204.3	15.5	13.2	43.9	131.7	38.7
1970	209.9	17.2	15.1	46.7	130.9	43.3
1971	223.6	18.6	14.2	46.8	144.1	47.7
1972	229.3	19.6	14.9	53.3	141.5	53.0
1973	236.0	20.7	16.0	54.0	145.2	55.7
1974	225.0	21.6	16.5	53.3	133.7	57.8
1975	227.9	21.1	17.4	55.3	134.1	58.8
1976	230.8	22.8	18.0	55.9	134.1	61.6
1977	244.5	23.5	18.6	58.8	143.7	67.9
1978	249.1	23.3	19.3	58.5	148.0	65.0
1979	271.3	23.1	20.5	69.4	158.3	67.3

1/ Totals do not include small quantities of energy sources for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; wind energy; and geothermal, biomass, and waste energy other than that consumed at the electric utilities.

2/ Data include power from electric utilities, including electrical energy losses incurred in the generation and transmission of electricity.

3/ Energy input at electric utilities. Distributed among the other four sectors.

Source: U.S. Department of Energy, Statistics Branch, State Energy Data Report, Statistical Tables and Technical Documentation, 1960 Through 1979 (September 1981), p. 112.

Table 374.-- ELECTRIC UTILITIES: 1970 TO 1981

Year	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
1970 ..	219,003	186,282	32,721	1,007,021	3,758,094	1,270,732	2,487,362
1971 ..	226,514	193,043	33,471	1,016,350	4,167,127	1,375,308	2,791,819
1972 ..	236,309	201,903	34,406	1,135,055	4,562,568	1,493,840	3,068,728
1973 ..	246,255	210,740	35,515	1,266,600	4,867,850	1,581,855	3,285,995
1974 ..	255,901	219,633	36,268	1,419,892	5,113,906	1,635,928	3,477,928
1975 ..	263,816	226,836	36,980	1,454,359	5,334,755	1,676,438	3,658,317
1976 ..	270,035	232,070	37,965	1,454,359	5,615,209	1,750,618	3,864,592
1977 ..	275,616	237,557	38,059	1,481,680	5,831,610	1,779,314	4,052,296
1978 ..	284,064	244,863	39,201	1,487,490	6,004,891	1,799,024	4,205,867
1979 ..	293,061	252,898	40,163	1,502,840	6,197,426	1,851,457	4,345,969
1980 ..	301,544	260,358	41,186	1,514,180	6,345,531	1,852,984	4,492,547
1981 ..	305,927	265,042	40,885	1,652,380	6,424,016	1,855,837	4,568,179

Year	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1970 ..	6,822	76,017	.026810	.020113	84,097	34,068	50,029
1971 ..	7,124	83,410	.028229	.021493	98,849	38,823	60,026
1972 ..	7,399	89,192	.02849	.02172	109,217	42,557	66,660
1973 ..	7,506	92,524	.03077	.02367	126,449	48,680	77,769
1974 ..	7,449	95,895	.03493	.02704	151,177	57,149	94,028
1975 ..	7,391	98,927	.04586	.03794	215,677	76,885	138,792
1976 ..	7,543	101,794	.04796	.03934	235,999	83,957	152,042
1977 ..	7,490	106,474	.05222	.04408	271,553	92,917	178,636
1978 ..	7,347	107,290	.05883	.04943	313,722	105,846	207,876
1979 ..	7,321	108,208	.06420	.05424	354,595	118,862	235,733
1980 ..	7,117	109,079	.07901	.06964	459,251	146,397	312,854
1981 ..	7,002	111,732	.11563	.10605	699,031	214,584	484,447

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 375.-- ELECTRIC UTILITIES, BY ISLANDS: 1981

County or island	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Resi-dential	Other		Total	Resi-dential	Other
State total	305,927	265,042	40,885	1,652,380	6,424,016	1,855,837	4,568,179
Oahu	218,162	191,283	26,879	1,347,000	5,276,227	1,429,139	3,847,088
Hawaii	36,799	30,570	6,229	124,300	447,054	183,476	263,578
Kauai	17,597	14,959	2,638	62,080	199,452	73,147	126,305
Maui County	33,369	28,230	5,139	119,000	501,283	170,075	331,208
Lanai	838	709	129	-	6,048	3,555	2,493
Maui	30,245	25,655	4,590	110,300	471,916	156,288	315,628
Molokai	2,286	1,866	420	8,700	23,319	10,232	13,087

County or island	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Resi-dential	Other	Resi-dential	Other	Total	Resi-dential	Other
State total	7,002	111,732	0.11563	0.10605	699,031	214,584	484,447
Oahu	7,471	143,126	0.11364	0.10329	559,790	162,412	397,378
Hawaii	6,002	42,315	0.11552	0.11191	50,692	21,195	29,497
Kauai	4,890	47,879	0.15094	0.15096	30,107	11,040	19,067
Maui County	6,025	64,450	0.11722	0.11626	58,442	19,937	38,505
Lanai	5,015	19,325	0.12941	0.13699	802	461	341
Maui	6,092	68,764	0.11303	0.11252	53,178	17,664	35,514
Molokai	5,484	31,160	0.17708	0.20245	4,462	1,812	2,650

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 376.-- GAS UTILITIES: 1970 TO 1981

[Excludes bottled gas.]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential	Other	Total	Residential	Other
1970 ...	36,142	32,163	3,979	27,831	10,891	16,940
1971 ...	36,153	32,072	4,081	30,445	9,279	21,167
1972 ...	36,083	31,806	4,277	33,322	9,321	24,000
1973 ...	35,781	31,142	4,639	34,540	8,931	25,609
1974 ...	35,228	30,620	4,608	34,363	8,096	26,267
1975 ...	34,685	30,236	4,449	35,594	8,230	27,364
1976 ...	34,264	29,873	4,391	35,568	8,121	27,447
1977 ...	33,722	29,408	4,314	34,844	7,612	27,232
1978 ...	33,413	29,091	4,322	34,919	7,388	27,532
1979 ...	33,309	29,014	4,295	35,264	7,326	27,937
1980 ...	33,019	28,825	4,194	34,705	7,030	27,675
1981 ...	32,421	28,343	4,078	32,396	6,422	25,975

Year	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1970 ...	339	4,257	.3619	.2227	7,714	3,941	3,773
1971 ...	289	5,187	.3699	.2308	8,317	3,432	4,885
1972 ...	293	5,612	.36843	.22681	8,878	3,434	5,444
1973 ...	287	5,520	.37518	.23121	9,272	3,351	5,921
1974 ...	264	5,700	.68361	.52267	19,264	5,535	13,729
1975 ...	272	6,151	.81723	.63583	24,125	6,726	17,399
1976 ...	272	6,251	.82767	.63369	24,115	6,722	17,393
1977 ...	259	6,313	.85883	.65821	24,462	6,537	17,925
1978 ...	254	6,370	.91647	.71792	26,536	6,770	19,766
1979 ...	253	6,505	1.09260	.89221	32,931	8,006	24,925
1980 ...	244	6,599	1.46583	1.25951	45,162	10,305	34,857
1981 ...	227	6,369	1.72585	1.50091	50,069	11,083	38,986

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 377.-- GAS UTILITIES, BY ISLANDS: 1981

[Excludes bottled gas.]

Island	Customers, Dec. 31			Gas sold (therms)		
	Total	Residential	Other	Total	Residential	Other
State total	32,421	28,343	4,078	32,396,391	6,421,742	25,974,649
Oahu	29,731	26,021	3,710	29,542,909	5,893,917	23,648,992
Hawaii	2,026	1,713	313	2,138,736	386,969	1,751,767
Kauai	279	279	-	67,876	67,876	-
Maui	385	330	55	646,870	72,980	573,890
Molokai	-	-	-	-	-	-
Lanai	-	-	-	-	-	-

Island	Average annual use (therms) 1/		Average rate (dollars per (therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	227	6,369	1.72585	1.50091	50,069	11,083	38,986
Oahu	227	6,374	1.75875	1.53333	46,628	10,366	36,262
Hawaii	226	5,597	1.38178	1.19153	2,622	535	2,087
Kauai	243	-	1.39359	-	95	95	-
Maui	221	10,434	1.20247	1.10943	724	87	637
Molokai	-	-	-	-	-	-	-
Lanai	-	-	-	-	-	-	-

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 378.-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC CO., INC., ON OAHU: 1970 TO 1981

Year	Number of customers, Dec. 31		Net input 1/ (1,000 kWh)	Power sold (1,000 kWh)	Average annual residential use 2/ (kWh)	Average residential rate (dollars per kWh)	Installed capacity 3/ (kW) Dec. 31
	Total	Residential only					
1970 ..	168,531	144,854	3,494,059	3,275,673	7,478	0.02438	811,700
1971 ..	174,300	150,285	3,844,325	3,600,728	7,776	0.02555	811,700
1972 ..	180,794	156,249	4,175,342	3,942,679	8,108	0.02584	902,600
1973 ..	187,321	162,180	4,407,460	4,189,397	8,191	0.02812	1,005,200
1974 ..	194,043	168,525	4,641,204	4,393,616	8,110	0.03063	1,140,180
1975 ..	198,598	172,839	4,793,015	4,555,118	7,999	0.04313	1,140,180
1976 ..	201,974	175,581	5,038,978	4,761,592	8,102	0.04385	1,140,180
1977 ..	205,225	179,139	5,209,990	4,911,435	8,035	0.04810	1,140,180
1978 ..	209,907	183,519	5,331,724	5,025,540	7,875	0.05485	1,140,180
1979 ..	213,781	186,875	5,466,677	5,163,786	7,846	0.05813	1,140,180
1980 ..	217,142	189,771	5,525,998	5,266,522	7,661	0.07126	1,140,180
1981 ..	218,162	191,283	5,507,151	5,276,227	7,474	0.11364	1,211,410

1/ Net generated plus purchased power.
2/ Based on average number of customers during the year.
3/ Maximum generator nameplate.
Source: Hawaiian Electric Co., Inc., records.

Table 379.-- RESIDENTIAL CUSTOMERS, VACANT UNITS, AND TURN-ONS, FOR HOUSING UNITS SERVED BY THE HAWAIIAN ELECTRIC COMPANY ON OAHU: 1976 TO 1981

Year	Residential customers, December	Vacant units, Dec.		Turn-ons, annual	
		Number	Ratio 1/	Number	Ratio 1/
1976	184,350	2,653	1.4	20,339	11.0
1977	188,456	2,352	1.2	22,673	12.0
1978	192,280	2,362	1.2	32,779	17.0
1979	201,013	1,297	0.6	32,419	16.1
1980	222,745	2,662	1.2	20,499	9.2
1981	241,509	1,526	0.6	33,917	14.0

1/ Per 100 residential customers, December.
Source: Hawaiian Electric Co., Inc., records.

Table 380.-- GAS UTILITY SERVICE BY GASCO, INC., FOR OAHU: 1971 TO 1981

Calendar year	Customers, Dec. 31		Gas sold 1/ (1,000 therms)		Average annual residential usage 1/ (therms)
	Total	Residential	Total	Residential	
1971 ...	33,691	29,621	29,082	8,290	280
1972 ...	33,479	29,256	31,643	8,258	282
1973 ...	33,142	28,813	32,610	8,041	279
1974 ...	32,455	28,200	32,166	7,522	267
1975 ...	31,856	27,778	32,885	7,600	274
1976 ...	31,443	27,429	32,649	7,490	276
1977 ...	30,926	26,993	31,831	7,007	260
1978 ...	30,659	26,722	31,842	6,797	254
1979 ...	30,582	26,686	32,135	6,736	252
1980 ...	30,471	26,625	31,636	6,455	242
1981 ...	30,019	26,201	29,543	5,893	225

1/ Includes liquefied petroleum gas.
Source: Gasco, Inc., records.

Table 381.-- TYPICAL RESIDENTIAL UTILITY MONTHLY RATES, BY ISLANDS: JANUARY 1982

[In dollars.]

Utility and monthly use	Oahu	Hawaii 1/	Kauai	Maui	Molokai	Lanai
Water:						
5/8-inch meter, 5,000 gal.	6.70	7.25	4.50	7.95	7.95	3.45
5/8-inch meter, 10,000 gal. ...	10.90	10.80	7.00	11.90	11.90	5.65
1-inch meter, 20,000 gal.	19.30	21.40	15.00	28.05	28.05	11.30
1-1/2-inch meter, 50,000 gal. .	44.50	48.20	35.00	65.25	65.25	27.00
Electricity: 2/						
250 kilowatt-hours	33.57	33.54	43.18	33.48	49.90	36.98
500 kilowatt-hours	62.13	59.09	81.36	59.76	93.33	66.75
750 kilowatt-hours	90.70	84.63	119.54	86.09	136.78	96.58
1,000 kilowatt-hours	119.26	110.17	157.71	112.91	180.22	126.90
Gas: 2/						
10 therms	19.20	16.75	17.11	14.50	...	...
25 therms	39.00	34.38	35.28	28.75	...	...
50 therms	72.00	63.75	65.55	52.50	...	...
100 therms	138.00	122.50	126.10	100.00	...	...
Telephone: 3/						
Individual line	11.40	10.20	9.70	9.70	8.30	7.50
Two-party line	9.35	8.55	8.20	8.20	7.05	6.40

1/ Water rates are those for all districts except Kaloko Mauka Subdivision System.

2/ Includes fuel adjustment surcharge.

3/ Excludes federal excise tax (1 percent for 1982).

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division; Honolulu Board of Water Supply; Hawaii County Department of Water Supply; Kauai County Department of Water; Maui County Department of Water Supply; Dole Company, Lanai City.

Table 382.-- LIQUID FUEL TAX BASE: 1971 TO 1981

[In thousands of gallons.]

Year reported 1/	All types	Gasoline	Diesel oil	
			Non-hwy.	Hwy. use
1971	809,628	250,191	57,405	8,852
1972	827,825	261,452	65,163	9,523
1973	882,932	281,122	74,608	11,159
1974	824,653	270,267	75,124	11,539
1975	839,289	284,552	75,120	12,710
1976	850,261	295,704	79,884	13,561
1977	888,136	311,409	85,484	13,817
1978	917,380	324,702	99,755	15,233
1979	960,837	324,337	108,460	16,596
1980	939,766	312,896	101,719	17,765
1981	918,437	305,886	101,212	15,771

Year reported 1/	Liq. pet. gas		Aviation fuel	Small boats	
	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1971	1,044	579	489,767	231	1,559
1972	1,231	702	487,743	264	1,747
1973	1,909	453	511,502	280	1,899
1974	2,093	789	463,728	312	801
1975	1,823	1,380	462,384	411	908
1976	1,858	1,054	456,819	464	917
1977	2,036	1,280	472,654	558	899
1978	1,821	1,216	473,270	445	938
1979	2,213	1,140	506,825	410	856
1980	2,448	1,140	502,544	338	917
1981	2,378	1,136	489,551	424	2,079

1/ Liquid fuel sold in a given month is usually reported the following month. Annual totals accordingly refer to fuel sold during a 12-month period ended November 30.

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections & Distribution" (annual report).

Table 383.-- FUEL OIL AND KEROSENE DELIVERIES: 1979 AND 1980

[Thousands of barrels.]

Use	Distillate fuel oil		Residual fuel oil		Kerosene	
	1979	1980	1979	1980	1979 1/	1980
Total	5,957	5,962	12,599	13,234	40	9
Heating and industrial ...	750	876	335	338	12	-
Residential	2	1	-	-	-	-
Commercial	259	396	16	25	6	-
Industrial	170	106	319	313	-	-
Farm	319	373	-	-	6	-
Oil company	581	196	379	929	-	-
Electric utility	278	886	10,407	10,271	-	-
Military	3,385	2,840	25	49	-	-
Railroad	2	22	-	-	-	-
Vessel bunkering	38	26	1,237	1,395	-	-
On-highway	399	428	-	-	-	-
Off-highway	182	237	-	-	-	-
Other	342	451	216	252	28	9

1/ Revised from 1981 edition, table 374.

Source: U.S. Department of Energy, Energy Information Administration, "Deliveries of Fuel Oil and Kerosene in 1980," Energy Data Reports, DOE/EIA-0113(80), February 11, 1982.

Table 384.-- GASOLINE AVERAGE PRICES PER GALLON, FOR OAHU 1973 TO 1982

[In dollars. Average prices include all applicable federal, state, and county taxes.]

Date		All types 1/	Leaded regular 2/	Unleaded regular 3/	Leaded premium 2/
1973:	Oct.	...	0.452	...	0.487
	Dec.	...	.477	...	.512
1974:	June	...	.599	...	.632
	Dec.	...	.599	...	.629
1975:	June	...	.673	...	.710
	Dec.	...	.691	...	.733
1976:	Jan.	...	.685	0.696	.727
	June	...	.684	.692	.720
	Dec.	...	.702	.714	.743
1977:	June	...	.723	.738	.764
	Dec.	...	.722	.743	.768
1978:	June	...	.741	.772	.798
Revised series 4/					
1978:	June	0.778	.761	.765	.793
	Dec.	.804	.778	.791	.821
1979:	June	.957	.922	.956	.970
	Dec.	1.150	1.087	1.164	1.175
1980:	June	1.352	1.310	1.350	1.383
	Dec.	1.407	1.348	1.413	1.441
1981:	June	1.580	1.508	1.588	1.619
	Dec.	1.584	1.520	1.586	1.621
1982:	June	1.512	1.454	1.511	1.556

1/ Includes types not shown separately. Not calculated before June 1978.

2/ Survey initiated October 1973.

3/ Survey initiated January 1976.

4/ Not directly comparable to earlier data.

Source: U.S. Bureau of Labor Statistics, Retail Prices and Indexes of Fuels and Utilities (monthly, 1973-1978), Consumer Prices: Energy (monthly, 1979-forward), and printouts for 1978-1979; Hawaii State Department of Planning and Economic Development, Gasoline Prices in Hawaii, 1920-1980 (Statistical Report 140, August 7, 1980), table 2.

Table 385.-- GASOLINE SERVICE STATIONS: 1977

[Data are shown only for establishments with payroll.]

Subject	State total	Oahu only
Number of establishments	381	276
Offering self-service sale of gasoline	55	47
Offering sale of diesel fuel	23	(NT)
Sales ($1,000)	172,799	131,285
Gallon sales (1,000):		
Gasoline, total	191,781	146,086
Through self-service	18,578	16,308
Other automotive fuels	3,734	3,548
Pumps, Dec. 31:		
Gasoline, total	2,006	1,595
Self-service	166	147
Other automotive fuel	40	23

NT Not tabulated.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-S-2, Miscellaneous Subjects (October 1980), tables 2, 3, 4, 5, and 6.

Table 386.-- BUNKER OIL LADEN IN HONOLULU CUSTOMS DISTRICT ON VESSELS ENGAGED IN FOREIGN TRADE: 1977 TO 1981

[In barrels of 42 gallons.]

Year	Total	American vessels		Foreign vessels	
		Fuel oil	Diesel oil	Fuel oil	Diesel oil
1977	1,728,413	241,964	35,068	376,207	1,075,174
1978	2,049,939	261,467	18,943	632,127	1,137,402
1979	1,550,905	111,171	66,414	464,493	908,827
1980 1/ .	1,248,161	77,410	59,117	483,817	627,817
1981 1/ .	1,076,215	39,249	43,170	199,938	793,858

1/ Includes fuel oil laden aboard lighters for transfer to supertankers anchored outside U.S. ports limits for use as tankers.

Source: U.S. Bureau of the Census, United States Foreign Trade, Bunker Fuels, Annual 1977 (FT810-77-13, May 1978), Annual 1978 (FT810-78-13, July 1979), Annual 1979 (FT810-79-13, May 1980), Annual 1980 (FT810-80-13, May 1981), and Annual 1981 (FT810-81-13, March 1982).

Table 387.-- BOILERS AND PRESSURE VESSELS: DECEMBER 31, 1980

Island	Power boilers	Heating boilers	Pressure vessels 1/
State total	674	2,657	4,746
Hawaii	73	237	729
Maui	63	208	450
Lanai	3	2	26
Molokai	4	30	22
Oahu	478	2,063	3,262
Kauai	53	117	257

1/ Five cubic feet or more.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupation Safety and Health, records.

Table 388.-- ENERGY GENERATED, PURCHASED, SOLD AND USED BY RAW SUGAR FACTORIES, BY ISLANDS: 1980

Subject	State total	Hawaii	Kauai	Maui	Oahu
Electricity (millions of kilowatt-hours)					
Generated	693.62	285.03	122.95	191.15	94.49
Purchased	72.49	5.29	3.33	5.02	58.85
Sold	247.55	165.07	26.77	54.36	1.35
Used 1/	518.56	125.25	99.51	141.81	151.99
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	26,390	10,942	4,885	6,415	4,148
Bagasse	23,731	9,911	4,767	5,604	3,449
Fuel oil	2,128	985	118	782	243
Other fuels	531	46	-	29	456

1/ Includes transmission losses and electricity used to operate power plant auxiliaries.

Source: Hawaiian Sugar Planters' Association, Energy Inventory for Hawaiian Sugar Factories--1980 (Hawaiian Planters' Record, Vol. 59, No. 10, 1981), pp. 224-227.

Table 389.-- PURCHASED FUELS AND ELECTRIC ENERGY USED FOR HEAT AND POWER BY MANUFACTURING ESTABLISHMENTS: 1978 AND 1979

Industry group	British thermal units (trillions)		Cost (million dollars)	
	1979	1978	1979	1978
All manufacturing	12.9	9.7	52.9	36.4
Food and kindred products	5.2	5.8	20.6	18.4
Preserved fruits and vegetables ...	.9	.9	4.0	3.1
Sugar, confectionery products	3.1	4.0	11.4	11.5
Printing and publishing	.2	(D)	1.1	(D)

D Withheld to avoid disclosure of information pertaining to a specific organization.

Source: U.S. Bureau of the Census, 1979 Annual Survey of Manufactures, Fuels and Electric Energy Consumed, M79(AS)-4.2 (February 1982), pp. 40-41.

Table 390.-- OCCUPIED HOUSING UNITS WITH SOLAR HEATING DEVICES, BY COUNTIES: 1981

[Based on a sample survey of 6,654 occupied units.]

County	Number	Percent
State total	19,292	6.8
Honolulu	12,197	5.4
Hawaii	1,848	6.3
Kauai	1,847	17.8
Maui	3,400	16.9

Source: Unpublished data from Hawaii State Department of Health, Hawaii Health Surveillance Program, compiled for Hawaii State Department of Planning and Economic Development, Division of Energy.

Table 391.-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT IN HAWAII: 1969 TO 1980

[Millions of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter.]

Fiscal year	Total federal R&D obligations	Federal obligations for R&D plant
1969	37.7	0.8
1970	43.8	.5
1971	38.3	2.2
1972	47.4	.9
1973	47.9	.4
1974	53.1	.4
1975	43.0	6.2
1976	45.5	2.8
1977	36.9	.5
1978	44.6	.7
1979	40.8	.5
1980	42.6	.2

Source: National Science Foundation, Federal Funds for Research and Development: Fiscal Years 1980, 1981, and 1982, Vol. XXX, NSF 81-325, pp. 178-179.

Table 392.-- R&D EXPENDITURES AT UNIVERSITIES AND COLLEGES: 1972 TO 1980

[Thousands of dollars.]

Fiscal year	Total R&D expenditures	Federally financed R&D expenditures
1972	23,520	13,725
1973	24,846	15,382
1974	21,143	14,065
1975	24,596	15,540
1976	28,049	17,578
1977	28,900	17,945
1978 1/	31,971	19,781
1979	35,703	22,500
1980	40,593	25,833

1/ Data were collected only from doctorate-granting institutions.

Source: National Science Foundation, Academic Science, R&D Funds, Fiscal Year 1980, NSF 82-300, pp. 13-14.

Table 393.-- PATENTS ISSUED TO HAWAII RESIDENTS: 1973 TO 1981

[Unless otherwise indicated, data include design, plant, and reissue patents.]

Year ended --	Patents
1973: Dec. 31 1/	50
1974: June 30	55
1975: June 30	61
1976: June 30	51
1977: Sept. 30	43
1978: Sept. 30	41
1979: Sept. 30	32
1980: Sept. 30	32
1981: Sept. 30	49

1/ Excludes reissue patents.

Source: U.S. Department of Commerce, Patent and Trademark Office, Commissioner of Patents and Trademarks Annual Report, Fiscal Year 1979, p. 31, and Fiscal Year 1981, p. 41.

Section 18

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, bicycles, traffic accidents, local public transit, civil aviation, harbors, and water traffic.

Motor vehicle registration in Hawaii increased from 431,000 in 1971 to 649,000 in 1981. Vehicle miles rose during the same period from 3.7 billion to 5.9 billion. Hawaii residents purchased 37,000 new passenger cars in 1980 and scrapped or shipped out approximately 33,000. By the end of 1981, 541,000 licensed drivers had access to 4,004 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 19.4 million in 1971 to 73.5 million in 1981. Registered bicycles numbered 108,000 in 1974 and 69,000 in 1981.

Most scheduled interisland travel is now by air. In 1981, the two major airlines and a number of air taxis reported 6.7 million interisland passengers, about two times their 1971 total, and carried 66,000 tons of cargo. The State has 10 commercial airports, 14 general aviation, military or semi-private airports, 12 civilian heliports, 3,948 active pilots, and about 385 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 542 in 1982, air arrivals increased during the same 23-year span from 224,000 to 4.3 million. Overseas cargo received in the State in 1979 amounted to 61,000 tons by air and 9.3 million tons by ship.

Undocumented State-registered vessels as of December 31, 1981 numbered 13,405, compared with 8,803 in 1971. Median length was 18 feet, and four-fifths were stored on land. There were also 1,141 documented vessels in the State in 1981, almost double the 1971 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors and Airports Divisions and Motor Vehicle Safety Office. Other sources include the U.S. Coast Guard, Civil Aeronautics Board, Federal Aviation Administration, Army Corps of Engineers, Honolulu Department of Transportation Services and Department of Data Services, County finance departments, Cardinal Mailing Services, and individual transportation companies. Data for the entire period of record appear in Historical Statistics of Hawaii, Section 17. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1981, Sections 22 and 23.

Table 394.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1981

Island	Total 1/	Paved	Unpaved
State total	4,003.55	3,698.02	310.53
Hawaii	1,556.05	1,401.30	154.75
Maui	601.82	531.41	70.41
Lanai	45.83	31.83	14.00
Molokai	127.12	115.12	12.00
Oahu	1,335.26	1,298.66	36.60
Kauai	342.47	319.70	22.77
Niihau	-	-	-

1/ Includes 36.27 miles of freeway, all on Oahu.

Source: Hawaii State Department of Transportation, data provided April 14, 1982.

Table 395.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1981

Island	Number of bridges	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State total	1,093	Pearl City Viad.	5,946	Nanue	208
Hawaii ...	251	Hakalau	775	Nanue	208
Maui	150	Kalialinui	324	Uaoa	79
Lanai	-	None	...	None	...
Molokai ..	19	Manawainui	325	Manawainui	50
Oahu	592	Pearl City Viad. .	5,946	Kipapa	156
Kauai	81	Kalihiwai	798	Wahiawa, Koloa ..	90
Niihau ...	-	None	...	None	...

Source: Hawaii State Department of Transportation, information provided April 14, 1982.

Table 396.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1981

[Differences between these data and the data for December 31, 1980 in the 1981 edition, table 385, reflect revised measurements rather than any actual changes in tunnel lengths during the year.]

Island and name of tunnel		Length (feet)
All tunnels		9,376
Oahu:		
Pali No. 1:	Inbound	1,000
	Outbound	1,080
Pali No. 2:	Inbound	500
	Outbound	497
Wilson:	Inbound	2,775
	Outbound	2,813
Middle Street (CD)		393
Maui:		
Olowalu		318

Source: Hawaii State Department of Transportation, information submitted April 14, 1982.

Table 397.-- SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES, BY ISLANDS: DECEMBER 31, 1980

Island	Signalized intersections	Metered parking spaces	
		On-street	Off-street
State total	586	3,442	4,308
Hawaii	30	458	291
Maui	14	-	26
Lanai	-	-	-
Molokai	-	-	16
Oahu	537	2,984	3,887
Kauai	5	-	88
Niihau	-	-	-

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the Hawaii State Department of Accounting and General Services, Hawaii State Department of Transportation, City and County of Honolulu Department of Transportation Services, Hawaii County Department of Public Works, Kauai County Department of Public Works, and Maui County Department of Public Works.

Table 398.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1971 TO 1981

[Taxable and non-taxable, including military non-resident exempt vehicles. Data for 1971-1978 have been revised from the 1979 edition, table 280.]

Year	All vehicles registered	Motor vehicles			
		All motor vehicles	Passenger vehicles 1/	Ambulances, hearses, patrol wagons	Buses
1971	443,563	431,419	371,705	100	1,154
1972	468,410	454,829	390,062	97	1,347
1973	499,525	484,521	413,839	99	1,724
1974	510,627	495,037	420,228	90	1,951
1975	522,421	506,434	430,043	88	2,186
1976	551,438	535,217	452,616	82	2,624
1977	580,380	563,964	475,368	81	2,888
1978	599,990	583,601	489,878	84	3,052
1979	626,841	610,570	510,353	91	3,267
1980	633,846	617,571	514,669	85	3,366
1981	667,019	649,350	541,932	88	3,577

Year	Motor vehicles -- continued				Trailers and semi-trailers
	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motorcycles, motor scooters 2/	
1971	46,168	1,629	774	9,889	12,144
1972	50,451	1,696	776	10,400	13,581
1973	56,002	1,747	767	10,343	15,004
1974	59,759	1,796	766	10,447	15,590
1975	63,134	1,877	733	8,373	15,987
1976	68,215	1,866	680	9,134	16,221
1977	73,762	1,848	609	9,408	16,416
1978	78,447	1,809	560	9,771	16,389
1979	84,578	1,784	511	9,986	16,271
1980	87,542	1,725	488	9,696	16,275
1981	90,954	1,641	458	10,700	17,669

Footnotes and source on next page.

Table 398.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1971 TO 1981 -- Con.

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 399.-- MOTOR VEHICLES REGISTERED, BY COUNTIES: 1971 TO 1981

[Taxable and non-taxable, including military non-resident exempt vehicles. Includes passenger cars, buses, trucks, and motorcycles but excludes trailers and semi-trailers.]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1971	431,419	338,219	42,227	19,592	31,381
1972	454,829	354,544	45,316	20,766	34,203
1973	484,521	375,763	49,053	22,167	37,538
1974	495,037	381,502	51,064	22,802	39,669
1975	506,434	387,558	53,124	23,764	41,988
1976	535,217	406,149	57,151	25,300	46,617
1977 1/ ...	563,964	424,892	60,374	26,920	51,778
1978	583,601	436,347	63,025	27,614	56,615
1979	610,570	452,449	67,718	29,492	60,911
1980	617,571	454,316	70,047	30,604	62,604
1981	649,350	476,995	75,812	32,932	63,611

1/ Corrected from 1980 edition, table 343.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 400.-- PASSENGER VEHICLES REGISTERED, BY COUNTIES: 1971 TO 1981

[Taxable and non-taxable, including military non-resident exempt vehicles. Excludes ambulances, hearses, buses, trucks, motorcycles, and trailers.]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1971	371,705	296,985	33,490	15,784	25,446
1972	390,062	310,144	35,623	16,716	27,579
1973	413,839	327,638	38,299	17,766	30,136
1974	420,228	331,266	39,428	18,135	31,399
1975	430,043	336,953	41,048	18,873	33,169
1976	452,616	352,148	43,826	19,882	36,760
1977	475,368	367,398	46,072	21,001	40,897
1978	489,878	376,260	47,764	21,411	44,443
1979 1/ ...	510,353	388,788	51,159	22,790	47,616
1980	514,669	389,576	52,682	23,561	48,850
1981	541,932	409,305	57,397	25,363	49,867

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the 1979 and subsequent data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations..

Table 401.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1981

[Taxable and non-taxable, including military non-resident exempt vehicles.]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All vehicles	667,019	486,778	79,839	34,920	65,482
Motor vehicles	649,350	476,995	75,812	32,932	63,611
Passenger vehicles 1/	541,932	409,305	57,397	25,363	49,867
Ambulances 2/	88	69	10	6	3
Buses	3,577	2,686	324	198	369
Trucks 1/, 3/	90,954	55,207	16,588	6,880	12,279
Truck tractors 4/	1,641	886	399	136	220
Truck cranes 5/	458	195	131	43	89
Motorcycles 6/	10,700	8,647	963	306	784
Trailers and semi-trailers ..	17,669	9,783	4,027	1,988	1,871

1/ Vans and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles beginning in 1979 are included in the trucks category.

2/ Including hearses and patrol wagons.

3/ Includes 112 unknown types of freight vehicles, most of which are probably trucks -- 57 in Honolulu, 17 in Hawaii, 9 in Kauai, and 29 in Maui.

4/ Including tow trucks.

5/ Including miscellaneous vehicles.

6/ Including motorscooters but excluding mopeds (1.5 HP or less), legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulation.

Table 402.-- VEHICLES AVAILABLE TO HOUSEHOLDS: 1960 TO 1980

Vehicles available 1/	1960	1970	1980
All households	153,012	203,089	294,052
None	25,871	22,170	31,631
1	88,320	93,854	112,787
2	32,577	69,343	95,845
3 or more	6,244	17,722	53,789

1/ "Automobiles available" before 1980.

Source: U.S. Bureau of the Census, U.S. Census of Housing: 1960, State and Small Areas, Hawaii, HC(1)-13 (1961), table 6; Census of Housing: 1970, Detailed Housing Characteristics, Hawaii, HC(1)-B13 (December 1961), table 36; 1980 Census of Population and Housing, Provisional Estimates of Social, Economic, and Housing Characteristics, PHC80-S1-1 (March 1982), p. 71.

Table 403.-- REGISTERED TAXIS AND BICYCLES, BY ISLANDS: 1980 AND 1981

[As of December 31.]

Island	Taxis		Bicycles	
	1980 1/	1981	1980	1981 2/
State total	1,450	1,605	70,680	69,328
Hawaii	66	66	2,702	3,549
Maui	114	111	2,254	2,232
Lanai	2	2	140	132
Molokai	2	-	167	198
Oahu	1,229	1,381	64,112	61,783
Kauai	37	45	1,305	1,434
Niihau	-	-	-	-

1/ Revised from 1981 edition, table 395.

2/ Oahu figure includes 7,353 motorized and 54,430 non-motorized vehicles.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Table 404.-- COMPONENTS OF CHANGE IN PASSENGER VEHICLE REGISTRATION: 1971 TO 1981

Year	Number of passenger vehicles			Out-shipments of automobiles and auto parts (tons)
	Net increase since previous year	New cars registered	Scrapped or shipped out	
1971 ..	16,128	35,984	19,856	16,157
1972 ..	18,357	37,484	19,127	14,394
1973 ..	23,777	41,919	18,142	16,420
1974 ..	6,389	30,932	24,543	31,423
1975 ..	9,815	33,693	23,878	21,396
1976 ..	22,573	38,006	15,433	18,627
1977 ..	22,752	44,482	21,730	24,846
1978 ..	14,510	44,383	29,873	19,255
1979 ..	20,475	40,481	20,006	22,163
1980 ..	4,316	37,104	32,788	(NA)
1981 ..	27,263	(NA)	(NA)	(NA)

NA Not available.

Source: Net increase from Hawaii State Department of Transportation, Motor Vehicle Safety Office, records. New cars registered from R. L. Polk & Co. data for 1971-1978 in the Federal Reserve Bank of San Francisco, Western Economic Indicators, November-December 1979, p., A-10, and 1979 and 1980 in MVMA Motor Vehicle Facts & Figures '81, p. 15. Vehicles scrapped or shipped out of State computed as a residual. Outshipment tonnage from U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual).

Table 405.-- NEW PASSENGER CARS AND MOTOR TRUCKS REGISTERED: 1979 AND 1980

Year	Total	Passenger cars	Motor trucks
1979	48,371	40,481	7,890
1980	46,664	37,104	9,560

Source: R.L. Polk & Co., cited in Motor Vehicle Manufacturers Association of the United States, Inc., MVMA Motor Vehicle Facts & Figures '81 (1981), p. 15.

Table 406.-- NEW PASSENGER CAR REGISTRATIONS, BY ORIGIN AND MAKE, FOR THE CITY AND COUNTY OF HONOLULU: 1979 TO 1981

Origin and make of vehicle	1979	1980	1981
Total	36,245	31,934	32,037
Domestic 1/	18,801	12,334	13,298
Buick	1,397	1,218	1,210
Chevrolet	4,278	2,469	2,551
Dodge	1,255	410	647
Ford	5,391	3,297	3,895
Mercury	1,478	885	1,866
Oldsmobile	955	699	595
Plymouth	1,008	1,103	678
Pontiac	1,324	828	811
Other makes	1,715	1,425	1,045
Foreign 1/	17,444	19,600	18,739
Datsun	3,460	3,881	3,160
Honda	2,403	2,678	3,661
Mazda	2,382	3,370	2,819
Subaru	616	1,147	1,200
Toyota	4,318	5,435	5,319
Volkswagen	2,553	1,680	1,075
Other makes	1,712	1,409	1,505

1/ Vehicles manufactured abroad but sold under domestic nameplates are included in the domestic subtotals.

Source: Cardinal Mailing Services, Ltd., records.

Table 407-- HAWAII DRIVERS LICENSES IN FORCE: 1973 TO 1981

[As of December 31.]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1973	495,043	399,672	45,530	20,033	32,808
1974	509,236	409,977	43,907	20,815	34,537
1975	531,375	425,370	46,891	22,153	36,961
1976	541,180	429,559	49,184	22,662	39,775
1977	541,353	424,242	51,773	23,557	41,781
1978	541,263	420,005	54,504	24,381	43,373
1979 1/	543,202	418,751	53,735	25,606	45,110
1980	541,842	411,102	57,780	26,333	46,627
1981	541,279	407,062	60,171	27,261	46,785

1/ Revised from 1980 edition, table 348.
Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 408.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES: 1971 TO 1981

Year and county	Highway fuel consumption 1/		Vehicle miles of travel 2/	
	Total (1,000 gallons)	Gallons per vehicle 3/	Total (millions)	Per vehicle 3/
1971	261,476	615	3,660.7	8,609
1972	268,407	601	3,757.7	8,414
1973	289,847	608	4,057.9	8,511
1974	279,996	574	3,919.9	8,038
1975	296,160	590	4,146.2	8,263
1976	308,151	574	4,314.1	8,041
1977	324,449	578	4,542.3	8,088
1978	338,440	583	4,738.2	8,164
1979	339,989	560	4,759.9	7,834
1980	330,734	536	5,570.0	9,019
1981	319,588	492	5,855.7	9,018

Footnotes and source follow next table.

Table 409.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, BY COUNTIES: 1981

County	Highway fuel consumption 1/		Vehicle miles of travel 2/	
	Total (1,000 gallons)	Gallons per vehicle 3/	Total (millions)	Per vehicle 3/
State total ..	319,588	492	5,855.7	9,018
Honolulu	231,224	488	4,165.4	8,797
Hawaii	40,560	527	755.1	9,805
Kauai	16,209	472	355.5	10,361
Maui	31,595	490	579.7	8,987

1/ Includes gasoline, gasohol, diesel oil, and butane gas.

2/ Beginning in 1980, based on weighted annual average vehicle miles traveled per type of vehicle by county of inspection. Data for 1979 and earlier years based on an average of 14 miles per gallon and thus not comparable to 1980 and later figures.

3/ Motor vehicle total includes both taxable and nontaxable vehicles, and all military nonresident exempt vehicles. Data include passenger cars, buses, trucks, and motorcycles but exclude trailers and semi-trailers.

Source: Hawaii State Department of Transportation, Highways Division, annual releases and records.

Table 410.-- AVERAGE SPEEDS ON HIGHWAYS: 1976 TO 1980

[In miles per hour. Years ended June 30 through 1976 and September 30 thereafter.]

Year	Interstate		Multi-lane divided	Two-lane rural
	Urban	Rural		
1976	54.0	55.2	52.1	51.3
1977	54.7	56.0	53.5	52.3
1978	54.1	56.3	52.6	52.0
1979	54.8	55.7	53.3	53.2
1980	53.3	54.5	51.6	51.8

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (annual).

Table 411.-- ANNUAL AVERAGE OF QUARTERLY HIGHWAY SPEED MONITORING DATA: OCTOBER 1979 TO SEPTEMBER 1980

Speed measure	Interstate		Multi-lane divided	2-lane rural
	Urban	Rural		
Average speed (miles per hour)	53.3	54.5	51.6	51.8
85th percentile speed (miles per hour)	60.8	61.6	57.5	58.8
Percent exceeding --				
55 miles per hour	41.9	46.2	25.5	29.4
60 miles per hour	15.9	20.1	6.3	12.4
65 miles per hour	4.8	5.9	1.3	4.0

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, 1980, p. 163.

Table 412.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS: 1971 TO 1981

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1971	18,048	131	10,934	154
1972	18,259	126	11,141	146
1973	19,544	119	11,860	136
1974	14,855	119	10,022	129
1975	13,895	130	10,554	146
1976	14,860	137	11,667	149
1977	16,188	139	12,245	154
1978	18,545	175	13,327	195
1979	19,158	183	13,963	205
1980	18,301	165	13,026	185
1981	16,582	136	11,999	150

1/ Traffic accidents with damage of $300 or more ($100 or more before July 1, 1974) or causing injury or death.

Source follows next table.

Table 413.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, BY COUNTIES: 1981

County	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
State total ..	16,582	136	11,999	150
Honolulu	12,228	85	8,656	94
Hawaii	1,997	27	1,718	28
Kauai	854	10	534	12
Maui	1,503	14	1,091	16

1/ Traffic accidents with damage of $300 or more or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, Major Traffic Accidents, State of Hawaii (annual) and records.

Table 414.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU: 1979 TO 1981

[Calendar year data for City and County of Honolulu bus system. Monthly pass program implemented November 1, 1979; figures thereafter are estimates.]

Fare category	1979	1980	1981
All passengers	68,865,260	71,601,744	73,546,802
Adults, full fare	33,007,200	36,799,259	38,743,828
Students	15,815,950	16,765,875	16,483,937
School subsidy	75,172	150,972	209,827
Stadium express	15,795	18,162	16,376
Senior citizens	7,564,150	9,301,724	9,579,937
Chartered service	9,293	10,015	11,131
Free transfers	12,377,700	8,555,737	8,501,766

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 415.-- BUS SERVICE, FOR OAHU: 1970 TO 1981

[Service provided by Honolulu Rapid Transit Co., Ltd., through December 31, 1970 and by City and County of Honolulu beginning March 1, 1971.]

Year	Number of buses, Dec. 31	Bus mileage 1/	Passengers 2/
1970 3/	141	4,611,357	30,434,906
1971 4/	108	2,986,724	19,413,259
1972	143	4,964,044	31,031,764
1973	315	7,973,393	36,741,009
1974	333	11,670,774	50,519,626
1975	350	13,328,501	58,295,732
1976	350	15,547,127	64,585,334
1977	350	16,242,537	66,311,882
1978	350	15,991,798	67,746,396
1979	350	15,915,000	68,765,000
1980	400	16,579,392	71,601,744
1981	400	16,748,338	73,546,802

1/ All categories of service through 1978 and revenue vehicle miles (estimated) thereafter. Calendar year data.

2/ All categories of service through 1978 and revenue passengers (including senior citizens) as estimated thereafter. Calendar year data.

3/ Passenger total excludes 2,277,502 zone fares.

4/ Bus service by HRT was terminated by a strike that began January 1. The City and County of Honolulu commenced service March 1.

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 416.-- BUS REVENUES AND FARES, FOR OAHU: 1970 TO 1981

Year	Revenues (dollars)	Cash fares (cents)	
		Full	School
HONOLULU RAPID TRANSIT CO., LTD. 1/			
1970	4,970,000	25	15
CITY AND COUNTY OF HONOLULU 2/			
1971 3/	1,246,351	25	10
1972	4,445,817	25/50	10/25
1973	5,254,908	25/50	10/25
1974	6,807,147	25	10
1975	7,990,505	25	10
1976	9,007,134	25	10
1977	9,629,349	25	10
1978	9,686,876	25	10
1979	9,931,000	25	10
1980 4/	14,817,639	50	25
1981 4/	18,087,740	50	25

1/ Calendar year data for revenues and December 31 data for cash fares.

2/ Fiscal years ending June 30 for revenues; June 30 data for cash fares.

3/ Service commenced March 1; revenues are for 4-month period.

4/ New fare structure, including a monthly pass program, effective November 1, 1979. Regular monthly passes cost $15.00; student passes $7.50.

Source: HRT data from Hawaii State Department of Regulatory Agencies, Public Utilities Division, records; other data from MTL, Inc., provided by the City and County of Honolulu, Department of Transportation Services.

Table 417.-- MEANS OF TRANSPORTATION TO WORK AND PRIVATE VEHICLE OCCUPANCY: 1980

Subject	Number
Workers 16 years and over	455,887
Car, truck or van	359,361
Drive alone	252,267
Carpool	107,094
Public transportation	38,163
Walked only	35,825
Other means	13,400
Worked at home	9,138
Persons per private vehicle	1.20

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Provisional Estimates of Social, Economic, and Housing Characteristics, PHC80-S1-1 (March 1982), p. 15.

Table 418.-- STEAM RAILROAD MILEAGE AND PASSENGERS: 1976 TO 1981

[Data are for the Lahaina, Kaanapali & Pacific Rail Road, the only passenger railroad in the State.]

Calendar year	Miles of track	Passengers
1976	6	80,362
1977	6	85,933
1978	6	94,115
1979	6	103,206
1980	6	111,600
1981	6	125,640

Source: Lahaina, Kaanapali & Pacific Rail Road, records.

Table 419.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS: DECEMBER 31, 1981

Island	Airports 1/				Heliports 2/	
	State		Military	Semi-private	State (all commercial)	Semi-private
	Com-mercial	General aviation				
State total	10	4	7	3	2	10
Hawaii	3	1	1	1	-	2
Maui	2	-	-	1	-	2
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	2	-	-	-	-	-
Oahu	1	2	3	-	1	-
Kauai	1	1	1	1	1	6
Niihau	-	-	-	-	-	-
French Frigate Shoals	-	-	1	-	-	-
Kure Atoll	-	-	1	-	-	-

1/ Excludes private airports (not available).

2/ Excludes military and private heliports (not available).

Source: Hawaii State Department of Transportation, Airports Division, information provided January 15, 1982.

Table 420.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS: 1971 TO 1981

[An aircraft operation is an aircraft arrival or departure.]

Year	Honolulu International Airport	General Lyman Field, Hilo	Kahului Airport
1971	294,874	56,167	76,768
1972	297,861	50,333	75,467
1973	309,144	48,138	75,478
1974	305,724	47,715	75,186
1975	319,781	51,145	77,062
1976	320,565	52,679	90,455
1977	329,926	60,377	100,655
1978	379,106	52,677	125,291
1979	412,739	51,703	127,477
1980	375,408	49,969	111,573
1981	339,359	53,274	102,760

Source: Hawaii State Department of Transportation, Airports Division, tabular releases and records.

Table 421.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1981

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	339,359	125,321	73,057	110,416	30,565
Gen. Lyman	53,274	12,501	8,169	22,004	10,600
Kahului	102,760	42,348	28,641	24,984	6,787
Lihue	59,404	20,856	28,063	9,091	1,394
Keahole	57,488	12,681	14,633	22,416	7,758
Molokai	61,876	3,860	44,497	11,013	2,506

Source: Hawaii State Department of Transportation, Airports Division, information provided February 25, 1982.

Table 422.-- U.S. ACTIVE CIVIL AIRCRAFT AND GENERAL AVIATION HOURS FLOWN: 1976 TO 1980

Year	U.S. active civil aircraft, Dec.			Hours flown by general aviation aircraft 1/	
		General aviation 1/			
	Air carrier 2/	Number	Standard error	Number (1,000)	Standard error (1,000)
1976	21	365	...	...	...
1977	21	541	255	182	92
1978	18	475	262	202	128
1979	19	530	130	255	76
1980	17	385	123	157	66

1/ For aircraft based in Hawaii. Data for 1977 and later years based on samples with specified standard errors. The number of general aviation aircraft actually registered in Hawaii as of December 31, 1977, was 446.

2/ Aloha and Hawaiian.

Source: Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual), and records.

Table 423.-- ACTIVE PILOTS, FLIGHT INSTRUCTORS, AND NONPILOT AIRMEN IN THE PACIFIC REGION: 1976 TO 1980

[As of December 31. Data include American Samoa, Guam, Northern Mariana Islands, and Trust Territory of the Pacific Islands, as well as Hawaii.]

Year	Active pilots	Active flight instructors	Active nonpilot airmen 1/
1976	3,037	195	2,516
1977	3,241	207	2,660
1978	3,586	256	2,797
1979	3,972	280	2,897
1980	3,948	314	3,003

1/ Mechanics, parachute riggers, ground instructors, dispatchers, control tower operators, flight navigators, and flight engineers.

Source follows next table.

Table 424.-- TRANSPACIFIC AIRLINES SERVING HAWAII: JUNE 30, 1982

Category	Number
Total	27
Domestic airlines	15
Foreign airlines	12

Source: Hawaii Visitors Bureau, Research Committee, data provided June 30, 1982.

Table 425.-- TRANSPACIFIC AND INTERISLAND AIR PASSENGER MOVEMENTS: 1971 TO 1981

[Calendar years. Data include both revenue and non-revenue passengers.]

Year	Transpacific passengers			Inter-island passenger arrivals 1/
	Arrivals	Departures	Through	
1971 ..	2,296,119	2,304,570	729,237	3,380,031
1972 ..	2,540,472	2,550,199	733,362	4,093,338
1973 ..	2,866,003	2,913,446	870,378	4,809,097
1974 ..	3,009,769	2,964,992	885,122	5,174,914
1975 ..	3,181,580	3,134,774	956,576	5,321,616
1976 ..	3,496,645	3,432,908	816,915	5,873,138
1977 ..	3,667,756	3,615,717	714,150	6,413,847
1978 ..	4,131,466	4,054,544	854,276	7,341,815
1979 ..	4,245,032	4,148,645	971,452	7,578,877
1980 ..	4,270,633	4,174,739	1,118,987	6,737,894
1981 ..	4,290,752	4,292,159	1,032,264	6,724,113

1/ Air taxi service was seriously underreported before 1977.

Source: Hawaii State Department of Transportation, Airports Division, tabular releases and records.

Table 426.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES: 1979 TO 1981

Subject	1979	1980	1981
Number of airlines 1/	2	2	2
Aircraft revenue departures 2/ (1,000)	85.8	77.8	73.4
Aircraft revenue miles 2/ (1,000)	10,303	9,229	8,843
Average airborne speed 2/ (miles per hour)	316	318	321
Average available seats per aircraft mile flown 2/	130.4	131.0	133.7
Revenue passengers: 2/			
Enplanements (1,000)	6,766	5,981	5,531
Load factor (percent)	65.2	63.7	60.7
Revenue ton-miles (1,000):			
Freight plus express	2,688	2,544	1,993
Mail	1,090	977	1,019
Number of employees 3/	2,743	2,689	2,203
Operating revenues ($1,000)	155,010	180,498	183,987
Operating profit or loss ($1,000)	2,011	2,944	-5,554
Average passenger revenues per revenue passenger-mile 2/ (cents)	17.2	22.6	23.8
Average freight revenues per revenue ton-mile 2/ (dollars)	1.73	2.06	2.58

1/ Aloha Airlines, Inc., and Hawaiian Airlines, Inc.
2/ Scheduled service only.
3/ December data.

Source: Civil Aeronautics Board, CAB Form 41 schedules submitted by air carriers to CAB.

Table 427.-- AIR CARGO AND AIRMAIL: 1971 TO 1981

[In thousands of pounds.]

Calendar year	Overseas air cargo		Overseas airmail		Interisland 1/	
	Out-going	In-coming	Out-going	In-coming	Air cargo: incoming	Airmail: incoming
1971 2/ ...	67,131	116,591	17,915	24,883	51,389	14,332
1972 3/ ...	55,908	108,178	16,665	22,739	59,900	14,774
1973	57,494	87,834	16,123	21,001	69,710	16,453
1974	79,054	96,393	16,185	21,528	79,576	16,594
1975	95,287	112,338	36,934		81,515	17,830
1976	118,478	136,017	39,407		86,818	19,024
1977	132,401	133,352	36,938		82,676	17,065
1978	139,004	135,347	37,061		82,872	15,199
1979	121,702	121,205	17,497	17,577	118,555	15,364
1980	130,586	114,673	21,105	19,581	138,008	13,576
1981	151,513	101,301	22,388	19,887	132,559	14,131

1/ Air taxi service seriously underreported before 1977.

2/ Data reflect the shipping strike of July 1, 1971 - October 6, 1971.

3/ Data reflect the shipping strikes of January 17 - February 19, and October 25 - December 7, 1972.

Source: Hawaii State Department of Transportation, Airports Division, tabular releases and records.

Table 428.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1980

[This table corrects table 418 in the 1981 edition, which was dated 1980 but actually presented statistics for 1979.]

Airport	Passengers 1/		Cargo (1,000 lb.)		Mail (1,000 lb.)	
	In	Out	In	Out	In	Out
OVERSEAS						
Total	4,270,633	4,174,739	114,673	130,586	19,581	21,105
Honolulu	4,190,060	4,084,416	109,219	117,066	19,581	20,818
Gen. Lyman	80,573	90,323	5,454	13,520	-	287
INTERISLAND						
Total	6,737,894	6,373,894	138,008	138,008	13,576	13,576
Honolulu	2,877,205	2,884,669	47,195	79,198	5,513	7,939
Gen. Lyman	512,022	464,042	25,418	31,151	2,148	1,958
Upolu	962	944	-	-	-	-
Waimea-Kohala ...	10,302	9,341	221	95	-	-
Keahole	537,503	580,910	9,932	5,720	1,251	722
Kahului	1,503,763	1,501,269	35,768	12,672	2,833	1,843
Hana	10,686	10,997	5	3	-	-
Kaanapali	60,872	61,189	-	2	-	-
Molokai	94,865	94,658	1,194	699	347	108
Kalaupapa	2,071	2,150	192	20	-	-
Lanai	21,694	21,858	719	84	14	25
Lihue	1,105,838	1,105,775	17,364	8,357	1,469	980
Other airports ..	111	92	-	8	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (1,118,987), all through Honolulu International Airport).

Source: Hawaii State Department of Transportation, Airports Division, data supplied April 2, 1981 and monthly tabular release for December 1980.

Table 429.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1981

Airport	Passengers 1/		Cargo (1,000 lb.)		Mail (1,000 lb.)	
	In	Out	In	Out	In	Out
OVERSEAS						
Total	4,290,752	4,292,159	101,301	151,513	22,388	19,887
Honolulu	4,241,661	4,242,474	98,101	145,736	22,388	19,769
General Lyman ...	49,091	49,685	3,200	5,777	-	118
INTERISLAND						
Total	6,724,113	6,724,113	132,559	132,559	14,131	14,131
Honolulu	2,929,298	2,930,792	52,337	70,729	5,663	8,357
General Lyman ...	488,989	441,836	20,749	36,795	2,254	2,126
Upolu	1,069	1,058	-	-	-	-
Waimea-Kohala ...	5,445	4,853	5	1	-	-
Keahole	505,387	552,494	9,365	7,032	1,292	720
Kahului	1,552,770	1,550,639	31,273	9,212	3,009	1,881
Hana	8,993	9,154	1	5	-	-
Kaanapali	48,486	49,629	-	-	-	-
Molokai	86,025	84,598	1,387	962	406	92
Kalaupapa	1,743	1,738	204	58	-	-
Lanai	21,473	21,670	595	125	5	13
Lihue	1,074,425	1,075,642	16,643	7,640	1,502	942
Other airports ..	10	10	-	-	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (1,032,264), all through Honolulu International Airport.

Source: Hawaii State Department of Transportation, Airports Division, information provided February 25, 1982.

Table 430.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1981

[Year ended June 30. Top city pairs originating or terminating passengers and revenue passenger-miles, ranked by passengers. Data limited to domestic operations in scheduled service. Figures are combined totals in both directions.]

City pair in both directions 1/ (in order of passenger rank)	Inter-city distance (miles)	Passenger		Passenger-miles	
		U.S. rank	Number (1,000)	U.S. rank	Number (1,000)
Honolulu-Lihue	102	11	952	306	98,272
Honolulu-Los Angeles	2,569	15	779	4	2,010,245
Honolulu-Kahului	100	19	690	434	69,041
Honolulu-Hilo	216	47	310	310	97,311
Honolulu-San Francisco	2,397	62	367	14	898,106
Honolulu-New York	4,973	177	180	13	908,872
Kahului-Los Angeles	2,499	199	164	40	436,389
Honolulu-Seattle	2,679	223	146	44	404,519
Honolulu-Chicago	4,251	331	99	41	423,851
Lihue-Los Angeles	2,629	339	97	85	260,390
Kahului-San Francisco	2,338	366	91	99	229,768
Honolulu-Las Vegas	2,762	395	86	92	241,295

1/ Includes all cities in Hawaii included in top 100 U.S. city pairs, as ranked either by number of passengers or number of passenger-miles.

Source: Civil Aeronautics Board, Domestic Origin-Destination Survey of Airline Passenger Traffic, Second Quarter 1981.

Table 431.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1980 TO 1982

Subject	Effective date of change in fare					
	Jan. 1, 1980	June 1, 1980	Aug. 1, 1980	Oct. 1, 1980	Jan. 20, 1981	Mar. 31, 1981
First class, F 1/	302.12	319.13	351.14	365.11	384.12	415.12
Fare	299.00	316.00	348.00	365.00	384.00	415.00
Tax	3.12	3.13	3.14	0.11	0.12	.12
Coach, weekend, YW 1/ .	209.08	221.09	243.10	252.08	265.08	286.09
Fare	206.00	218.00	240.00	252.00	265.00	286.00
Tax	3.08	3.09	3.10	0.08	0.08	0.09
Coach, weekday, YX 1/ .	199.08	211.08	233.09	252.08	265.08	286.09
Fare	196.00	208.00	230.00	252.00	265.00	286.00
Tax	3.08	3.08	3.09	0.08	0.08	.09
Aircraft	B-747	B-747	B-747	B-747	B-747	B-747
Flight time 2/	5:02	5:02	5.02	5:02	5:02	5:02

Continued on next page.

Table 431.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1980 TO 1982 -- Con.

Subject	Effective date of change in fare					
	June 17, 1981	Oct. 1, 1981	Mar. 1, 1982	Apr. 1, 1982	June 1, 1982	Sept. 1, 1982
First class, F 1/	425.13	392.12	412.12	412.12	412.12	415.16
Fare	425.00	392.00	412.00	412.00	412.00	412.00
Tax	.13	.12	.12	.12	.12	3.16
Coach, weekend, YW 1/ .	296.09	280.08	219.07	310.09	328.10	331.13
Fare	296.00	280.00	219.00	310.00	328.00	328.00
Tax	0.09	.08	.07	.09	.10	3.13
Coach, weekday, YX 1/ .	296.09	280.08	219.07	310.09	328.10	331.13
Fare	296.00	280.00	219.00	310.00	328.00	328.00
Tax	.09	.08	.08	.09	.10	3.13
Aircraft	B-747	B-747	B-747	B-747	B-747	B-747
Flight time 2/	5:02	5:00	5:00	5:00	5:00	5:00

1/ Total regular one-way fare, including taxes, in dollars.
2/ Average scheduled flight time eastbound and westbound, in hours and minutes.
Source: United Airlines, printed schedules and records.

Table 432.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIIAN AIRLINES: 1980 TO 1982

Subject	Effective date of change in fare					
	Mar. 1, 1980	May 2, 1980	June 1, 1980	Sept. 1, 1980	Jan. 1, 1981	Mar. 1, 1981
HONOLULU - HILO						
Total one-way fare 1/	49.00	50.00	53.00	56.00	59.00	61.00
Fare	45.37	46.30	49.07	51.85	56.19	58.10
Tax	3.63	3.70	3.93	4.15	2.81	2.90
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0:40	0:40	0:40	0:40	0:40	0:40
HONOLULU - MAUI						
Total one-way fare 1/	38.00	39.00	41.00	44.00	47.00	49.00
Fare	35.19	36.11	37.96	40.74	44.76	46.67
Tax	2.81	2.89	3.04	3.26	2.24	2.33
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0.27	0:27	0:27	0:27	0:27	0:27
HONOLULU - KAUAI						
Total one-way fare 1/	38.00	39.00	41.00	44.00	47.00	49.00
Fare	35.19	36.11	37.96	40.74	44.76	46.67
Tax	2.81	2.89	3.04	3.26	2.24	2.33
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0.26	0:26	0:26	0:26	0:26	0:26

Continued on next page.

Table 432.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1980 TO 1982 -- Con.

Subject	Effective date of change in fare					
	May 1, 1981	Oct. 15, 1981	May 1, 1982	Jun. 1, 1982	Aug. 1, 1982	Sept. 1, 1982
HONOLULU - HILO						
Total one-way fare 1/	63.00	53.00	56.00	58.00	63.00	65.00
Fare	60.00	50.48	53.33	55.24	60.00	60.19
Tax	3.00	2.52	2.67	2.76	3.00	4.81
Aircraft	DC-9-50	3/ DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80
Flight time 2/	0:40	0:40	0:40	0:40	0:40	0:40
HONOLULU - MAUI						
Total one-way fare 1/	51.00	43.00	46.00	48.00	53.00	54.50
Fare	48.57	40.95	43.81	45.71	50.48	50.46
Tax	2.43	2.05	2.19	2.29	2.52	4.04
Aircraft	DC-9-50	3/ DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80
Flight time 2/	0:27	0:27	0:27	0:27	0:27	0:27
HONOLULU - KAUAI						
Total one-way fare 1/	51.00	43.00	46.00	48.00	53.00	54.50
Fare	48.57	40.95	43.81	45.71	50.48	50.46
Tax	2.43	2.05	2.19	2.29	2.52	4.04
Aircraft	DC-9-50	3/ DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80
Flight time 2/	0:26	0:26	0:26	0:26	0:26	0:26

1/ Total regular one-way fare, including taxes and other charges, in dollars.

2/ Average scheduled flight time eastbound and westbound, in hours and minutes

3/ The first DC-9-80 aircraft was put into service in April 1981.

Source: Hawaiian Airlines, printed schedules and records.

Table 433.-- STATE COMMERCIAL HARBORS: 1982

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open
Hawaii:							
Hilo	35	35	2,300	1,400	2,613	64	341
Kawaihae	40	35	1,500	1,450	1,015	30	73
Maui:							
Kahului	35	35	1,450	2,000	2,794	122	638
Molokai:							
Kaunakakai	23	23	1,500	600	687	6	288
Oahu:							
Honolulu:							
Main	45	40	3,300	1,520	19,255	2,132	6,554
Kapalama		40	3,400	1,000			
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,140	69	73
Port Allen	35	35	1,500	1,200	1,092	24	33

Source: Hawaii State Department of Transportation, Harbors Division, data supplied April 24, 1981 and May 18, 1982.

Table 434.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1971 TO 1981

Year	Documented vessels 1/		Numbered vessels 2/	
	Date	Number	Date	Number
1971	June 30	597	Dec. 31	8,803
1972	June 30	621	Dec. 31	10,250
1973	June 30	692	Dec. 31	12,049
1974	Aug. 22	707	Dec. 31	11,843
1975	Sept. 1	797	Dec. 31	12,956
1976	Dec.	802	Dec. 31	13,130
1977	Dec. 7	924	Dec. 31	13,165
1978	Dec. 31	987	Dec. 31	13,695
1979	Dec. 31	996	Dec. 31	13,678
1980	Dec. 31	1,143	Dec. 31	13,459
1981	June 30	1,141	Dec. 31	13,405

1/ Vessels documented under the laws of the United States with the U.S. Coast Guard in Hawaii. All vessels over five net tons, used for commercial purposes, must be documented. In addition, yachts over five net tons may be documented.

2/ Non-documented numbered vessels registered with the Hawaii State Department of Transportation. Any mechanically propelled boat (including those with auxiliary engines), and any boat powered solely by sail if over eight feet in length, must be numbered.

Source: U.S. Coast Guard, records; Hawaii State Department of Transportation, Report of Undocumented Vessel Registration (annual).

Table 435.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1981

Subject	Number	Subject	Number
Certificates outstanding	13,405	Type of vessel: 1/	
		Cabin motorboat	1,911
Length: 1/		Open motorboat	5,140
Under 16 feet	5,166	Runabout	2,967
16 to less than 26 feet	6,861	Sail/inboard	587
26 to less than 40 feet	1,131	Sail/outboard	696
40 to 65 feet	207	Sail only	1,510
Over 65 feet	7	Motor vessel over 65 feet	6
		Other	555
Hull materials: 1/			
Wood	2,398	Uses:	
Steel	33	Pleasure	11,734
Aluminum	428	Commercial fishing	1,119
Plastic	10,062	Charter fishing	19
Other	451	Commercial passenger	70
		Other commercial	39
Propulsion: 1/		Livery	105
Inboard	908	Dealers or manufacturers	34
Outboard	7,390	Youth group	25
Inboard/outboard	2,048	Government	205
Sail/inboard	598	Other	55
Sail/outboard	639		
Sail only	1,530	Island kept: 1/	
Other	265	Hawaii	1,824
		Kauai	1,029
Type of storage: 1/		Lanai	51
On water	2,785	Maui	920
On land	10,587	Molokai	230
		Oahu	9,316

1/ Data exclude 33 dealer registrations.

Source: Hawaii State Department of Transportation, Harbors Division, Report of Undocumented Vessel Registration (annual).

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Table 436.-- BOATING ACCIDENTS: 1976 TO 1981

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage ($1,000)
	Total	Fatal	Killed	Injured non-fatally		
1976	51	2	2	5	57	221.5
1977	57	1	1	6	63	284.0
1978	74	7	12	5	87	603.2
1979	59	3	7	9	66	429.2
1980	71	1	1	8	86	917.6
1981	43	-	-	5	52	404.5

Source: U.S. Department of Transportation, Coast Guard, Boating Statistics (annual).

Table 437.-- SHIP ARRIVALS AT THE PORT OF HONOLULU: 1971 TO 1981

[Years ended June 30.]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1971	1,879	15,629,860	3,356	2,339,132
1972	1,847	15,267,302	3,096	1,875,681
1973	1,801	14,373,090	3,602	2,185,872
1974	1,587	13,465,620	3,666	2,879,354
1975	1,602	13,025,705	3,440	2,411,933
1976	1,386	11,700,000	2,733	2,064,320
1977	1,589	12,568,896	2,700	2,249,446
1978	1,651	12,676,469	1,981	1,947,893
1979	1,757	12,101,936	2,875	2,838,609
1980	1,963	10,483,989	2,338	2,572,778
1981	1,968	10,959,161	2,597	2,670,405

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data.

Table 438.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1979

[Excludes domestic fishing craft.]

Harbor	Total inbound vessels	By type of vessel					By draft	
		Self propelled vessels			Non-self propelled vessels			
		Passenger and dry cargo	Tanker	Towboat or tugboat	Dry cargo	Tanker	18 feet and less	19 feet and more
All spec. harbors ..	10,686	3,662	226	4,041	2,491	266	(NA)	(NA)
Hilo	692	134	15	263	247	33	612	80
Kawaihae	286	17	1	164	99	5	270	16
Kahului	989	149	15	401	376	48	791	198
Kaunakakai	646	-	-	362	282	2	(NA)	(NA)
Kalaupapa	4	-	-	3	1	-	4	-
Honolulu	6,860	3,156	87	2,189	1,311	117	6,071	789
Barbers Point	691	139	101	413	-	38	593	98
Nawiliwili	380	63	4	160	130	23	341	39
Port Allen	138	4	3	86	45	1	(NA)	(NA)

NA Not available.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1979, Part 4, pp. 105-106.

Table 439.-- TRANSPACIFIC AND INTERISLAND SURFACE PASSENGER MOVEMENTS: 1972 TO 1982

[Data limited to revenue passengers.]

Year	Transpacific passengers 1/ (years ended June 30)			Inter-island passenger arrivals 2/ (calendar years)
	Arrivals	Departures	Through	
1972 ...	10,725	8,820	(NA)	-
1973 ...	9,742	7,585	(NA)	-
1974 ...	5,756	5,975	(NA)	-
1975 ...	5,795	5,284	(NA)	71,807
1976 ...	5,829	5,987	(NA)	196,366
1977 ...	5,940	5,476	(NA)	270,128
1978 ...	4,763	4,151	(NA)	11,000
1979 ...	551	318	11,536	-
1980 ...	399	353	11,421	15,763
1981 ...	616	604	10,214	33,108
1982 ...	542	461	6,785	(NA)

NA Not available.

1/ Data limited to the Port of Honolulu. The decline in passenger volumes after 1977 reflects the termination of service by the *Mariposa* and *Monterey* on April 2, 1978.

2/ Scheduled interisland passenger service by hydrofoil was begun June 15, 1975 and terminated January 15, 1978. Interisland cruise ship service was begun June 21, 1980. The 1978 figure is an estimate based on the daily average for 1977.

Source: Transpacific passengers, 1979 and later years, from TheoDavies Marine Agencies, Inc., records; interisland passengers, 1980 and 1981, from American Hawaii Cruises, records; other data from Hawaii State Department of Transportation, Harbors Division, records.

Table 440.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1970 TO 1980

Subject and year	Hilo	Kawaihae	Kahului	Hono-lulu 1/	Barbers Point	Nawiliwili
FREIGHT TRAFFIC 2/ (SHORT TONS)						
1970	1,141,163	329,425	1,083,355	8,078,111	2,561,558	500,094
1971	1,064,384	355,546	1,067,941	7,390,015	2,677,542	460,259
1972	1,108,067	303,116	1,297,829	7,960,447	3,420,445	582,887
1973	1,041,647	385,850	1,042,818	8,188,466	3,944,857	495,448
1974	928,619	291,036	982,110	7,556,891	4,360,221	380,495
1975	1,053,879	279,687	1,109,485	7,935,183	5,185,659	532,978
1976	995,544	263,562	1,276,424	7,189,538	6,593,497	460,900
1977	1,013,430	318,197	1,301,095	6,881,556	6,630,994	557,798
1978	1,272,734	502,451	1,922,112	7,750,537	6,306,580	765,877
1979	1,220,438	447,521	1,473,307	7,463,663	6,154,541	757,899
1980	1,102,019	518,116	1,441,524	7,646,270	5,725,722	785,212
PASSENGERS 3/						
1970	4,457	-	-	690,906	-	4,228
1971	2,148	-	-	518,603	-	1,683
1972	658	-	-	796,694	-	658
1973	-	-	-	989,100	-	-
1974	9,600	-	9,600	987,475	-	-
1975	13,613	-	11,296	1,073,125	-	13,934
1976	1,313	-	1,307	1,390,524	-	40,674
1977	8,381	-	8,390	303,291	3,504	70,063
1978	3,207	-	3,879	183,721	4,441	6,384
1979	-	-	-	311,899	-	-
1980	-	-	-	547,242	-	-

1/ For discussion of the accuracy of these data, see the following table.

2/ Excludes cargo carried by Army and Navy vessels and cargo in transit.

3/ Total arrivals and departures for transpacific, interisland, and local travel. For details (Honolulu only), see the following table.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1980*, Part 4, pp. 29-34.

Table 441.-- PASSENGER ARRIVALS AND DEPARTURES, BY ORIGIN AND DESTINATION, FOR HONOLULU HARBOR AND KEWALO BASIN: 1978

Harbor and trip category	Total	Arrivals	Departures
HONOLULU HARBOR 1/			
Total	183,721	89,305	94,416
To or from other countries	12,617	3,729	8,888
To or from other States	4,026	2,130	1,896
To or from U.S. territories	-	-	-
Interisland 2/	167,078	83,446	83,632
Local 3/	-	-	-
KEWALO BASIN			
Total	1,580,806	790,403	790,403
Overseas	-	-	-
Interisland 2/	1,580,806	790,403	790,403
Local 3/	-	-	-

1/ According to the Waterborne Commerce Statistics Center, the source for these data, the 1976 data for Honolulu Harbor (reported in The State of Hawaii Data Book 1978, table 322) "incorrectly credited Honolulu Harbor, Oahu, with passenger traffic which should have been credited to Kewalo Basin, Oahu. In addition, these improper credits to Honolulu Harbor were doubled because the origin and destination data were incorrectly reported by the operators on the VORs (Vessel Operation Reports). The incorrect data contained in the CY 1976 VORs was corrected in CY 1977 thus reflecting a significant reduction in passenger totals for Honolulu Harbor, Oahu, in CY 1977 and a significant increase in passenger totals for Kewalo Basin, Oahu, in CY 1977. The passenger totals for CY 1976, 1977 and 1978 are further distorted by the fact that there are at least two water carriers that did not report passenger traffic for those years." The 1977 data for Honolulu Harbor were published in the 1979 edition, table 309, and the 1980 edition, table 377. These errors also affect the trend data for Honolulu Harbor presented in the preceding table and its earlier counterparts (for example, table 429 in the 1981 edition).

2/ Commercial interisland service was suspended from January 15, 1978 to June 21, 1980. It appears that local passenger traffic was misclassified as interisland during 1978.

3/ Chiefly Pearl Harbor tours. According to the U.S. Navy, civilian boats carried 537,671 passengers to or around the U.S.S. Arizona Memorial during 1978. All local passenger traffic appears to have been misclassified as interisland for this table.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce Statistics Center, letter dated August 26, 1980.

Table 442.-- OVERSEAS AND INTERISLAND SHIPPING: 1969 TO 1979

[In revenue tons of 2,000 lbs.]

Calendar year	Overseas cargo tons			Interisland cargo tons		
	Total	In	Out	Total	In	Out
1969 ...	9,440,891	7,185,809	2,255,082	3,941,074	1,969,987	1,971,087
1970 ...	9,610,764	7,464,651	2,146,113	4,788,130	2,394,065	2,394,065
1971 ...	9,442,634	7,097,445	2,345,189	4,190,708	2,091,490	2,099,218
1972 ...	10,024,122	7,631,789	2,392,333	5,851,128	2,800,702	3,050,426
1973 ...	11,287,536	8,203,106	3,084,430	4,679,121	2,300,634	2,378,487
1974 ...	11,156,346	8,581,226	2,575,120	3,780,896	1,904,501	1,876,395
1975 ...	11,758,995	8,644,344	3,114,651	5,067,630	2,495,317	2,572,313
1976 ...	12,222,022	9,240,594	2,981,428	5,015,918	2,475,123	2,540,795
1977 ...	12,644,459	9,544,639	3,099,820	4,542,491	2,274,346	2,268,145
1978 ...	12,279,219	9,089,931	3,189,288	6,547,820	3,274,080	2,273,740
1979 ...	11,823,885	9,255,026	2,568,859	5,631,539	2,917,854	2,713,685

Source: Hawaii State Department of Transportation, Harbors Division, estimates based on data in U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual).

Table 443.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1979

[In short tons.]

Harbor and commodity 1/	Total	Foreign		Interstate 2/	
		Imports	Exports	Receipts	Shipments
Hilo	1,220,438	19,506	51,928	143,686	233,057
Sugar	215,046	-	-	2,093	205,815
Kawaihae	447,521	-	54,809	3,963	191,261
Kahului	1,473,307	30,051	32,374	98,371	251,204
Sugar	205,826	-	4	-	204,587
Honolulu	7,463,663	1,097,881	106,299	2,443,830	942,479
Fresh fruits, tree nuts	280,594	1,086	1,427	21,296	56,020
Prep. fruit, veg. juice	441,038	1,881	2,404	6,520	338,380
Molasses	266,177	-	-	-	159,671
Gasoline	1,001,286	735,442	10,608	57,936	6,418
Residual fuel oil	344,434	62,493	-	157,389	51,221
Fabricated metal products	596,604	10,154	277	35,128	9,066
Motor vehicles, parts, equip.	529,823	25,653	329	83,667	19,407
Barbers Point	6,154,541	2,772,710	47,206	2,675,151	546,812
Crude petroleum	3,060,400	801,988	-	2,258,412	-
Gasoline	597,432	551,664	-	-	45,768
Distillate fuel oil	547,230	382,687	21,786	-	89,850
Residual fuel oil	1,601,281	714,021	25,418	416,739	411,194
Nawiliwili	757,899	5,754	-	3,594	255,539
Sugar	245,534	-	-	-	245,457
Kailua	24	(NA)	(NA)	(NA)	(NA)
Hana	15	(NA)	(NA)	(NA)	(NA)
Kaunakakai	192,307	(NA)	(NA)	-	-
Kalaupapa	435	-	-	-	-
Port Allen	110,677	(NA)	(NA)	25,108	-
Pearl Harbor	(NA)	(NA)	(NA)	37,957	80,183
Kaumalapau	(NA)	(NA)	(NA)	-	-

Continued on next page.

Table 443.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1979 -- Con.

[In short tons.]

Harbor and commodity 1/	Interisland 2/		Internal receipts	Local
	Receipts	Shipments		
Hilo	601,418	170,561	282	-
Sugar	219	6,919	-	-
Kawaihae	119,837	77,621	30	-
Kahului	749,794	311,442	71	-
Sugar	1,164	71	-	-
Honolulu	962,159	1,897,759	716	12,540
Fresh fruits, tree nuts	191,773	8,992	-	-
Prep. fruit, veg. juice	90,787	1,066	-	-
Molasses	106,506	-	-	-
Gasoline	-	181,779	-	9,103
Residual fuel oil	33,909	39,422	-	-
Fabricated metal products	150,303	391,676	-	-
Motor vehicles, parts, equip.	140,774	259,993	-	-
Barbers Point	5,567	107,095	-	-
Crude petroleum	-	-	-	-
Gasoline	-	-	-	-
Distillate fuel oil	46	52,861	-	-
Residual fuel oil	-	33,909	-	-
Nawiliwili	359,199	131,672	66	2,075
Sugar	77	-	-	-
Kailua	(NA)	(NA)	(NA)	(NA)
Hana	(NA)	(NA)	(NA)	(NA)
Kaunakakai	89,256	103,042	(NA)	(NA)
Kalaupapa	324	111	-	-
Port Allen	35,867	21,477	(NA)	(NA)
Pearl Harbor	1,012	5,472	(NA)	(NA)
Kaumalapau	51,837	142,818	(NA)	(NA)

NA Not available.

1/ Commodities under 200,000 tons are not shown separately.

2/ Interstate and interisland (or intrastate) data are combined in the coastwise totals shown in the published reports.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1979, pp. 29-35, and unpublished printouts.

Section 19

AGRICULTURE

This section presents statistics on agricultural land, farms, and specific crops, livestock, dairy products, and poultry. Related information appears in Section 6 (on land use), 11 and 15 (agricultural employment and earnings), and 22 (food processing).

There were 4,300 farms in Hawaii as of 1981, with a total area of 2.0 million acres. Both figures have declined during the past decade. The value of crop sales in 1981 was $401 million, or 125 percent higher than the total for 1971. Livestock sales amounted to $88 million, or 105 percent more than the 1971 level. Combined crop and livestock sales ranged from $58 million in Kauai County to $163 million on the Big Island. Major crops were sugar ($207 million in sales, up 79 percent over the decade), pineapple ($90 million, or 123 percent over the 1971 total), flowers and nursery products ($30 million, or 560 percent more than in 1971), and macadamia nuts ($26 million, up 641 percent). Diversified agriculture, defined as all crops other than sugar and pineapple, rose from $23 million in 1971 to $104 million in 1981, or approximately 362 percent. About 680 farms sold $30 million of flowers and nursery products in 1981, chiefly anthuriums, potted foliage, and orchids. Important products of livestock farms as of 1981 included cattle ($28 million in sales), milk ($30 million), and eggs ($15 million). In 1981, Hawaii produced 40 percent of the fresh market vegetables consumed locally, 25 percent of the fresh market fruits, 30 percent of the beef and veal, 28 percent of the chickens, none of the rice, and 88 percent of the eggs.

Aquaculture has been growing in importance in recent years. Freshwater prawn production amounted to 240,000 pounds in 1981, with a value of more than $1 million. Seven years earlier the corresponding figures had been only 11,000 lb. and $38,500.

Statistics on Hawaiian agriculture exclude pakalōlō (marijuana) and other illicit plants. Authorities confiscated $38 million worth of marijuana in 1981, but the proportion escaping detection is unknown.

Important sources for data on agriculture include the United States Census of Agriculture, generally conducted at five-year intervals, the annual report on Statistics of Hawaiian Agriculture issued by the Hawaii Agricultural Reporting Service, and data compiled by the Hawaii Agricultural Experiment Station, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. Agricultural data for earlier years are summarized in Historical Statistics of Hawaii, Section 13. National statistics appear in Section 24 of the Statistical Abstract of the United States: 1981.

Table 444.-- AGRICULTURAL SUMMARY: 1964 TO 1978

Subject	1964	1969	1974	1978
Number of farms by size				
Total	4,864	3,896	3,020	4,310
Less than 10 acres	2,603	2,024	1,633	2,527
10 to 49 acres	1,594	1,281	872	1,211
50 to 179 acres	359	336	271	296
180 to 499 acres	168	140	127	146
500 to 999 acres	38	28	23	24
1,000 to 1,999 acres	22	17	24	32
2,000 or more acres	80	70	70	74
Farm acreage				
Total acreage (1,000)	2,354	2,058	2,119	1,988
Per farm (acres)	484	528	702	461
Total cropland (1,000)	370.9	379.8	351.6	333.3
Harvested cropland (1,000)	167.5	178.7	151.4	158.6
Irrigated land (1,000)	143.9	145.6	141.7	159.3
Other characteristics				
Average age of farm operators (years)	51.0	53.1	55.4	52.7
Tenant operators (percent of total)	41.1	38.1	36.6	34.5
Regular hired workers 1/	12,375	13,200	11,497	11,380
Average value of land and buildings:				
Per farm ($1,000)	98.9	156.8	340.6	413.9
Per acre (dollars)	205	297	485	897
Market value of agricultural products sold:				
Total ($1,000,000)	187.5	285.6	609.8	419.3
Per farm ($1,000)	38.5	73.3	201.9	97.3
Percent of farms over $2,500	46.5	55.6	67.4	67.6

1/ Working 150 days or more on all farms.

2/ 1978 data exclude sales of forest products.

Source: U.S. Bureau of the Census, 1974 Census of Agriculture, Vol. I, Part 11 (1977), pp. 1, 2, and 16, and 1978 Census of Agriculture, Vol. I, Part 11 (1981), pp. 1, 2, 5, and 6.

Table 445.-- AGRICULTURAL SUMMARY, BY COUNTIES: 1978

Subject	State total	Hawaii	Hono-lulu	Kauai	Maui
Number of farms by size					
Total	4,310	2,266	1,053	369	622
Less than 10 acres	2,527	1,213	822	188	304
10 to 49 acres	1,211	745	161	114	191
50 to 179 acres	296	155	36	41	64
180 to 499 acres	146	85	16	11	34
500 to 999 acres	24	16	2	-	6
1,000 to 1,999 acres	32	13	9	5	5
2,000 or more acres	74	39	7	10	18
Farm acreage					
Total acreage (1,000)	1,988	1,154	126	286	422
Per farm (acres)	461	509	119	776	679
Total crop land (1,000)	333.3	129.5	(D)	(D)	96.6
Harvested cropland (1,000)	158.6	58.7	30.5	24.9	44.5
Irrigated land (1,000)	159.3	21.9	38.4	36.8	62.2
Other characteristics					
Average age of farm operators (years)	52.7	52.8	53.1	53.1	51.3
Tenant operators (percent of total)	34.5	33.9	40.3	38.5	24.4
Regular hired workers 1/	11,380	2,961	2,758	2,095	3,566
Average value of land and buildings:					
Per farm ($1,000)	413.9	405.5	300.6	498.7	586.4
Per acre (dollars)	897	796	2,519	643	864
Market value of agricultural products sold:					
Total ($1,000)	419,251	148,399	118,608	48,679	103,564
Per farm ($1,000)	97.3	65.5	112.6	131.9	166.5
Percent of farms over $2,500	67.6	68.6	71.5	59.9	61.7

D Data withheld to avoid disclosing information for individual farms.

1/ Working 150 days or more on all farms.

Source: U.S. Bureau of the Census, 1978 Census of Agriculture, Vol. I, Part 11 (1981), pp. 107, 125, 126, 130, 131, 135, 136, 140, 141.

Table 446.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES: 1971 TO 1981

Year	Number of farms 1/	Farm acreage 2/ (1,000)	Value of crop and livestock sales ($1,000)				
			Crops and live- stock	Sugar (un- processed cane)	Pine- apples (fresh equiv- alent)	Other crops	Live- stock
1971 ..	4,400	2,300	221,692	115,800	40,300	22,539	43,053
1972 ..	4,300	2,300	232,497	117,300	43,900	25,055	46,242
1973 ..	4,100	2,300	266,161	141,900	39,600	29,392	55,269
1974 ..	3,800	2,200	575,432	442,300	40,259	34,964	57,909
1975 ..	3,900	2,150	377,575	237,000	41,616	40,688	58,271
1976 ..	4,000	2,100	327,820	164,700	52,983	47,815	62,322
1977 ..	4,100	2,050	325,182	144,200	62,249	53,715	65,018
1978 ..	4,300	1,980	380,655	182,700	63,090	62,308	72,557
1979 ..	4,300	1,980	441,253	217,600	69,409	75,780	78,464
1980 ..	4,300	1,970	634,101	385,100	76,596	91,181	81,224
1981 ..	4,300	1,965	489,435	207,400	89,745	104,103	88,187

1/ Data for 1974 and later years based on revised farm definition.

2/ Includes land not in crop and pasture, such as farm house lots, roads, woodlots, etc.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 447.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1971 TO 1981

Geographic area and year	Number of farms 1/	Farm acreage 2/ (1,000)	Value of crop and livestock sales ($1,000)				
			Crops and live-stock	Sugar (unpro-cessed cane)	Pine-apples (fresh equiv.)	Other crops	Live-stock
State total:							
1971	4,400	2,300	221,692	115,800	40,300	22,539	43,053
1980	4,300	1,970	634,101	385,100	76,596	91,181	81,224
1981	4,300	1,965	489,435	207,400	89,745	104,103	88,187
Hawaii Co.:							
1971	2,450	1,340	69,203	43,700	-	11,711	13,792
1980	2,500	1,150	215,640	137,500	-	55,669	22,471
1981	2,500	1,150	162,936	76,000	-	63,885	23,051
Maui Co.:							
1971	600	526	62,023	27,400	26,200	3,057	5,366
1980	500	420	159,302	100,800	36,404	12,014	10,084
1981	500	420	115,295	50,600	39,915	13,175	11,605
Oahu:							
1971	930	152	61,366	20,600	12,800	5,968	21,998
1980	1,000	125	165,131	63,200	40,192	18,802	42,937
1981	1,000	125	153,631	34,200	49,830	21,314	48,287
Kauai Co.:							
1971	420	282	29,100	24,100	1,300	1,803	1,897
1980	300	275	94,028	83,600	(3/)	4,696	5,732
1981	300	275	57,573	46,600	(3/)	5,729	5,244

1/ Farm definition revised in 1979.

2/ Includes land not in crop and pasture such as farm house lots, roads, wood lots, etc.

3/ Less than $50,000.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 448.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1971 TO 1981

Subject	1971	1980	1981
Acreage in crop (1,000 acres):			
Sugarcane	232.3	217.7	216.1
Pineapples (land used for pineapple)	60.9	43.0	41.0
Vegetables and melons (harvested acreage)	2.9	3.9	4.2
Fruits, excluding pineapples	3.3	5.2	5.4
Coffee	3.4	1.9	1.8
Macadamia nuts	9.2	13.2	13.7
Miscellaneous crops	4.1	6.4	8.0
Number of crop farms:			
Sugar	612	330	320
Pineapples	36	18	18
Vegetables and melons	419	585	583
Fruits (excluding pineapples)	419	692	657
Coffee	750	650	625
Macadamia nuts	295	466	465
Taro	128	122	123
Flowers and nursery products	450	640	680
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons)	10,685	9,214	8,831
Pineapples, fresh equivalent (1,000 tons)	942	657	636
Vegetables and melons (1,000 lb.)	50,058	70,710	73,330
Fruits, excluding pineapples (1,000 lb.)	31,348	67,800	80,220
Coffee, parchment (1,000 lb.)	2,930	1,440	2,240
Macadamia nuts, in shell (1,000 lb.)	14,448	33,390	33,360
Taro (1,000 lb.)	8,840	6,400	6,100
Value of crop sales ($1,000):			
Sugar (unprocessed cane)	115,800	385,100	207,400
Pineapples (fresh equivalent)	40,300	76,596	89,745
Vegetables and melons	7,131	18,552	21,669
Fruits (excluding pineapples)	3,847	12,982	15,429
Coffee (parchment)	1,014	2,304	4,480
Macadamia nuts (in shell)	3,569	24,174	26,454
Taro	787	1,280	1,305
Field crops (not estimated separately)	1,527	4,101	5,017
Flowers and nursery products	4,484	27,688	29,599

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 449.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1981

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	90.5	47.1	32.7	45.8
Pineapples (land used for pineapple)	-	30.0	11.0	(1/)
Vegetables and melons (harvested acreage)	1.5	1.4	1.2	0.1
Fruits, excluding pineapples	3.7	0.1	0.8	0.8
Coffee	1.8	-	-	-
Macadamia nuts	12.5	(D)	(D)	(D)
Miscellaneous crops	1.1	4.9	1.4	0.6
Number of crop farms:				
Sugar	309	3	3	5
Pineapples	-	13	2	3
Vegetables and melons	216	75	244	48
Fruits (excluding pineapples)	392	33	155	77
Coffee	625	-	-	-
Macadamia nuts	460	2	1	2
Taro	40	30	3	50
Flowers and nursery products	330	85	240	25
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	3,507	2,038	1,337	1,949
Pineapples, fresh equivalent (1,000 tons)	-	466	170	(2/)
Vegetables and melons (1,000 lb.)	32,040	25,640	14,060	1,590
Fruits, excluding pineapples (1,000 lb.)	61,860	1,480	6,020	10,860
Coffee, parchment (1,000 lb.)	2,240	-	-	-
Macadamia nuts, in shell (1,000 lb.)	33,240	(D)	(D)	(D)
Taro (1,000 lb.)	450	(D)	(D)	4,450
Value of crop sales ($1,000):				
Sugar (unprocessed cane)	76,000	50,600	34,200	46,600
Pineapples (fresh equivalent)	-	39,915	49,830	(3/)
Vegetables and melons	8,827	6,352	5,895	595
Fruits (excluding pineapples)	11,434	291	1,609	2,095
Coffee (parchment)	4,480	-	-	-
Macadamia nuts (in shell)	26,355	(D)	(D)	(D)
Taro	104	(D)	(D)	934
Field crops (not estimated separately)	56	2,292	1,367	1,302
Flowers and nursery products	12,496	3,979	12,384	740

D Withheld to avoid disclosure of individual operations.
NA Not available.
1/ Less than 500 acres.
2/ Less than 500 tons.
3/ Less than $50,000.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1981.

Table 450.-- VEGETABLES, FRUITS, COFFEE, NUTS, AND TARO: 1981

Crop 1/	Acreage harvested 2/	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales ($1,000)
Vegetables:					
Snap beans	130	10.0	1,300	76.1	989
Chinese Cabbage	310	21.6	6,700	14.5	972
Head Cabbage	510	25.0	12,800	14.0	1,792
Celery	65	43.4	2,820	20.1	567
Cucumbers	250	20.0	5,000	25.3	1,265
Eggplant	60	35.7	1,580	35.7	564
Ginger Root	64	44.7	2,860	76.2	2,179
Lettuce (Head, Semi-Head)	680	15.0	10,200	22.7	2,315
Dry Onions	120	16.5	1,980	51.4	1,018
Green Onions	75	9.9	740	76.5	566
Watercress	30	...	1,130	63.3	715
Tomatoes	280	29.5	8,300	35.3	2,930
Fruits:					
Bananas	650	9.2	6,000	25.7	1,542
Guavas	620	...	6,520	11.0	717
Papayas	2,110	30.1	63,600	19.3	12,267
Macadamia nuts (1981-1982)	10,000	3.3	33,360	79.3	26,454
Coffee (1981-1982)	1,700	1.3	2,240	200.0	4,480
Taro	340	...	6,100	21.4	1,305

1/ Data shown for crops with sales in excess of $500,000.

2/ Acreage bearing for macadamia nuts; acreage in crop for watercress and taro.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture, 1981 pp. 33-69.

Table 451.-- LIVESTOCK INVENTORY: 1971, 1980, AND 1981

[In thousands.]

Type of livestock	1971	1980	1981
All cattle and calves 1/	245	220	228
Milk cows 1/	13	13	13
Hogs and pigs 2/	62	57	55
Chickens (excluding broilers) 2/ ..	1,405	1,314	1,242
Bee colonies	4	7	7

1/ As of following January 1.
2/ As of December 1.
Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 452.-- LIVESTOCK INVENTORY, BY GEOGRAPHIC AREAS: 1981-1982

[In thousands.]

Type of livestock	Hawaii County	Maui County	Oahu	Kauai County
All cattle and calves 1/	132.3	46.0	32.7	17.0
Milk cows 1/	1.7	1.1	9.5	0.4
Hogs and pigs 2/	4.8	10.9	34.5	5.2
Chickens (excluding broilers) 2/ .	(D)	(D)	1,083	(D)

D Withheld to avoid disclosure of individual operations.
1/ As of January 1, 1982.
2/ As of December 1, 1981.
Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1981, pp. 72, 81, and 86.

Table 453.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1971 TO 1981

Subject	1971	1980	1981
Number of livestock operations, Dec. 31:			
Cattle 1/	1,000	800	750
Hogs	540	650	650
Milk	100	70	70
Eggs	100	60	55
Broilers	22	10	10
Honey	19	27	28
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) 2/	33,965	28,809	28,699
Pork (dressed weight; 1,000 lb.)	8,447	8,012	8,708
Milk (million lb.)	131.6	149.4	147.9
Eggs (million)	210	220.5	22[illegible]
Broilers and chickens (1,000 lb. 3/)	5,745	7,890	[illegible]
Honey (1,000 lb.)	276	861	[illegible]
Value of livestock sales ($1,000):			
Cattle 4/	15,772	28,074	28,4[illegible]
Hogs 4/	4,460	7,457	8,382
Milk	13,226	27,071	30,320
Eggs	7,438	13,910	15,159
Broilers and chickens	2,051	4,181	5,307
Other	106	531	581

1/ Includes beef, dairy, and dairy replacement farms.

2/ Includes slaughter cattle, but excludes calves shipped out-of-State.

3/ Ready-to-cook weight.

4/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture (annual).

Table 454.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1981

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle 1/	350	190	70	140
Hogs	70	110	355	115
Milk	24	17	24	5
Eggs	23	5	23	4
Broilers	-	-	8	2
Honey	3	5	8	12
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.) 2/	18,212	6,321	1,824	2,342
Pork (dressed weight; 1,000 lb.)	947	2,090	4,967	704
Milk (million lb.)	(D)	(D)	116.6	(D)
Eggs (million)	(D)	(D)	192.7	(D)
Broilers and chickens (1,000 lb. 3/)	(D)	(D)	8,684	(D)
Honey (1,000 lb.)	(D)	(D)	(D)	(D)
Value of livestock sales ($1,000):				
Cattle 4/	18,092	6,398	1,653	2,295
Hogs 4/	954	2,146	4,536	746
Milk	(D)	(D)	24,136	(D)
Eggs	(D)	(D)	12,837	(D)
Broilers and chickens	(D)	(D)	5,077	(D)
Other	379	91	48	63

D Withheld to avoid disclosure of individual operations.

1/ Includes beef, dairy, and dairy replacement farms.

2/ Includes slaughter cattle, but excludes calves shipped out-of-State.

3/ Ready-to-cook weight.

4/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture 1981.

Table 455.-- FLOWERS AND NURSERY PRODUCTS, 1979 TO 1981, AND BY ISLANDS, 1981

Island and year	Number of farms	Area					Wholesale value ($1,000)
		Total (acres)	Greenhouse (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1979	580	1,312	1,625	16,950	116	770	20,778
1980	640	1,477	1,753	19,567	130	858	27,668
1981	680	1,605	2,072	23,068	133	895	29,599
Islands, 1981:							
Hawaii ...	330	900	1,202	18,529	116	331	12,496
Kauai	25	27	38	63	6	19	740
Maui	85	278	280	734	-	255	3,979
Oahu	240	400	552	3,742	11	290	12,384

Source: Hawaii Agricultural Reporting Service, "Flower Industry Has Another Record Year in 1981," Hawaii Flowers & Nursery Products, Annual Summary (June 24, 1982).

Table 456.-- FLOWERS AND NURSERY PRODUCTS, BY KIND OF FLOWER: 1981

Kind of flower	Number of farms	Number of flowers sold		Wholesale value ($1,000)
		Unit	Number	
Cut flowers:				
Anthuriums	235	1,000 dozens	2,104	5,295
Birds of paradise	30	1,000 dozens	28	77
Carnations	10	1,000 dozens	53	114
Chrysanthemums, pompon	16	1,000 bunches	471	590
Chrysanthemums, other	3	1,000 dozens	11	43
Gingers	55	(NA)	(NA)	168
Proteas, pincushion	14	1,000 stems	518	183
Proteas, other	12	1,000 stems	164	137
Roses	6	1,000 dozens	452	1,032
Others	68	(NA)	(NA)	542
Cut orchids:				
Cattleyas	31	1,000 flowers	63	63
Cymbidiums	16	1,000 flowers	420	199
Dendrobiums, sprays	51	1,000 dozens	83	431
Others	13	(NA)	(NA)	10
Lei flowers:				
Carnations	24	Million flowers	40.3	1,338
Vanda Miss Joaquim	31	Million flowers	57.1	815
Plumerias	20	Million flowers	17.8	291
Tuberoses	6	Million flowers	30.8	668
Dendrobiums	25	Million flowers	8.5	244
Pikake	15	1,000 strands	140	180
Cut foliage:				
Ti leaves	57	Million leaves	10.1	266
Other greens	32	(NA)	(NA)	252
Potted plants:				
Anthuriums	21	1,000 pots	98	128
Chrysanthemums	11	1,000 pots	205	689
Orchids	166	1,000 pots	618	2,642
Poinsettias	25	1,000 pots	136	430
Potted foliage	94	(NA)	(NA)	7,268
Other potted plants	83	(NA)	(NA)	1,565
Ornamentals and trees	72	(NA)	(NA)	851
Unfinished flower and foliage stock	42	(NA)	(NA)	1,300
Other nursery products	99	(NA)	(NA)	1,788

NA Not available.

Source: Hawaii Agricultural Reporting Service, "Flower Industry Has Another Record Year in 1981," Hawaii Flowers & Nursery Products, Annual Summary. (June 24, 1982).

Table 457.-- MARKET SUPPLY OF SPECIFIED FOODS: 1971 TO 1981

Commodity and year	Total market supply 1/			Per capita market supply 2/	Percent from Hawaii
	Total	Inshipment	Hawaii		
Fresh market fruits					
1971	48,440	31,329	17,111	58.2	35.3
1980	80,586	61,926	18,660	76.4	23.2
1981	82,439	61,556	20,883	77.3	25.3
Fresh market melons:					
1971	6,810	4,215	2,595	8.2	38.1
1980	13,244	11,894	1,350	12.6	10.2
1981	14,155	12,545	1,610	13.3	11.4
Fresh market vegetables:					
1971	112,373	69,510	42,863	135.0	38.1
1980	173,424	105,414	68,010	164.4	39.2
1981	175,427	105,052	70,375	164.6	40.1
Beef and veal: 3/					
1971	67,185	33,220	4/ 33,965	80.7	50.6
1980	94,359	65,550	4/ 28,809	89.4	30.5
1981	94,792	66,093	4/ 28,699	88.9	30.3
Pork: 3/					
1971	24,028	15,581	8,447	28.9	35.2
1980	34,830	26,818	8,012	33.0	23.0
1981	34,632	25,924	8,708	32.5	25.1
Chickens: 5/					
1971	24,095	18,350	5,745	28.9	23.8
1980	33,345	25,455	7,890	31.6	23.7
1981	32,896	23,850	9,046	30.9	27.5
Eggs:					
1971	18,287	787	17,500	22.0	95.7
1980	20,771	2,371	18,400	19.7	88.6
1981	20,864	2,464	18,400	19.6	88.2

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.

2/ Eggs in dozens; other foods in pounds. Based on de facto population.

3/ Carcass weight equivalent. After 1971 total supply was estimated and mainland inshipments derived.

4/ Excludes slaughter cattle and calves shipped out-of-State.

5/ Ready-to-cook weight. After 1972, total supply was estimated and mainland inshipments derived.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 458.-- AGRICULTURAL PRODUCTIVITY RATING AND ESTIMATED ANNUAL INLAND SOIL LOSS FOR MAJOR ISLANDS

Subject	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Agricultural productivity rating (1,000 acres)						
Total	2,584.3	466.4	89.3	167.1	388.9	354.1
Very good	-	32.7	-	0.7	24.6	10.0
Good	46.2	20.1	-	-	32.3	30.3
Moderate	214.3	38.5	4.8	4.5	22.0	28.5
Poor	573.1	99.8	20.2	40.4	19.7	30.5
Very poor	1,738.2	268.7	63.8	120.3	228.2	249.3
Not rated 1/	12.5	6.7	0.4	1.2	62.1	5.5
Inland soil loss (1,000 tons per year)						
Total erosion	2,287	2,357	1,242	2,373	1,355	2,493
Sediment yield 2/	502	310	187	357	330	429

1/ Quarry, water, or urban.

2/ Total erosion minus amount deposited enroute to the point of measurement.

Source: Arthur Y. Ching and Tamotsu Sahara, Land Use and Productivity Rating, State of Hawaii, 1968, L.S.B. Circular No. 15 (University of Hawaii, Land Study Bureau, July 1969), pp. 20-21; State of Hawaii Water Resources Regional Study, Hawaii Water Resources Plan (January 1979), p. 94.

Table 459.-- FRESHWATER PRAWN FARMS, BY TYPE OF OPERATION AND ISLAND: DECEMBER 31, 1979 TO 1981

Operation and island	1979	1980	1981
All prawn farms	19	24	21
Type of operation:			
Full-time	7	8	8
Part-time	12	16	13
Island:			
Hawaii	-	4	4
Molokai	1	1	1
Oahu	17	16	13
Kauai	1	3	3

Source follows next table.

Table 460.-- FRESHWATER PRAWN ACREAGE, PRODUCTION, AND VALUE: 1970 TO 1981

Year	Acres of prawn ponds 1/	Production (1,000 lb.)	Value ($1,000)	Wholesale price per pound (dollars)
1970 2/	1.5	...	...	...
1971 2/	1.5	...	...	...
1972	1.5	4.3	15.0	3.50
1973	1.5	4.4	15.3	3.50
1974	5	11.0	38.5	3.50
1975	26	40.3	140.9	3.50
1976	26	43.3	151.6	3.50
1977	33	54.9	206.0	3.75
1978	107	110.2	420.0	3.82
1979	275	205.0	787.3	3.84
1980	310	300.0	1,125.0	3.75
1981	260	240.0	1,031.0	4.30

1/ As of December 31.

2/ Data not available for production and value.

Source: Hawaii State Department of Planning and Economic Development, Aquaculture Development Program, The Hawaiian Prawn Industry, A Profile (December 1979), and Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

Table 461.-- AQUACULTURE ACREAGE, PRODUCTION, AND VALUE, BY TYPE: 1976 TO 1981

Subject and year	All types	Fresh-water prawns	Hawaiian fish-ponds	Post-larvae 1/	Other species 2/
Acreage:					
1976	235	26	192	17	
1977	246	33	192	31	
1978	320	107	192	31	
1979	493	275	192	1	25
1980	575	310	205	2	58
1981	547	260	199	2	86
Production (1,000 lbs.): 3/					
1976	94.0	43.3	19.7	...	31.0
1977	122.6	54.9	20.1	...	47.6
1978	178.5	110.2	23.3	...	45.0
1979	246.4	205.0	20.0	...	16.4
1980	320.0	300.0	20.0	...	31.0
1981	338.5	240.0	23.1	...	75.4
Value ($1,000):					
1976	210.0	151.6	18.5	39.9	
1977	280.6	206.0	24.7	49.9	
1978	524.7	420.0	32.7	72.0	
1979 4/	1,531.3	787.3	22.0	500.0	222.0
1980	1,655.0	1,125.0	20.0	450.0	60.0
1981	1,868.5	1,031.0	23.0	610.0	204.5

1/ Juvenile freshwater prawns and marine shrimp.

2/ Oysters, brine shrimp, carp and Chinese catfish, catfish, koi, tilapia, tropical fish and aquarium plants, and trout.

3/ Excludes items not sold by weight: post-larvae, brine shrimp, koi, tropical fish, and aquarium plants.

4/ Value of post-larvae estimated.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, information submitted July 16, 1982.

Section 20

FORESTS, FISHERIES, AND MINING

This section presents data on forests and forest products, commercial fishing, and mining and mineral products.

The most recent available statistics show 1.2 million acres of forest and water reserve and 948,000 acres of commercial forest in the State, most of it on the Big Island. About 46,000 acres had been planted in eucalyptus and other species of trees by mid-1981. Forest products harvested in 1977 had a value of $3.5 million, including $2.3 million from logs for fiber. More than 500 forest and brushland fires burned 15,000 acres in fiscal 1981.

The commercial fish catch in fiscal year 1981 amounted to 11 million pounds and had a value of $12 million. Aku (Skipjack) accounted for about 28 percent of the total value. Other important species are ahi, mahimahi, ono, lobster, opelu and opakapaka. Commercial fishermen numbered 2,577; they operated 1,266 fishing vessels, serving about 126 fishery wholesaling and processing establishments.

The value of mineral production reached $58 million in 1981, most of it in cement ($23 million) and stone ($31 million). The 1981 total, only slightly below the all-time high reached in 1979, was double the level of the early 1970s.

Important sources of data on these subjects are the United States Census of Agriculture, United States Census of Mineral Industries, and reports and records of the U.S. Bureau of Mines, National Marine Fisheries Service, and Hawaii State Department of Land and Natural Resources, Aquatic Resources Division and Forestry and Wildlife Division. Historical Statistics of Hawaii, Section 14, summarizes the data for earlier periods. Comparable Mainland statistics are reported in the Statistical Abstract of the United States: 1981, Sections 25, 26 and 27.

Table 462.-- FOREST ACREAGE, BY ISLANDS: 1970-1981

Island	Forest and water reserve, 1981 1/ (acres)	Forest land, 1970 (acres)			Planted forest, June 30, 1981 (acres)	
		Total	Commercial 2/	Noncommercial 3/	Planted in preceding year	Total standing
State total .	1,186,462	1,986,400	947,800	1,038,600	372	45,986
Hawaii	697,361	1,152,500	569,400	583,100	136	17,701
Maui	155,247	239,800	67,500	172,300	60	11,446
Kahoolawe	-	15,800	-	15,800	-	-
Lanai	6,150	43,900	4,500	39,400	-	512
Molokai	46,445	78,100	34,000	44,100	47	3,205
Oahu	119,319	205,300	126,500	78,800	12	7,036
Kauai	161,970	219,900	145,900	74,000	117	6,086
Niihau	-	31,100	-	31,100	-	-
Other islands	-	-	-	-	-	-

1/ Forest and water reserve within conservation district, as of June 30.

2/ Includes federal military, state, miscellaneous corporate, and miscellaneous individual forest land.

3/ Unproductive or productive-reserved.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 463.-- FOREST AND BRUSHLAND FIRES: 1980 AND 1981

[Years ended June 30.]

County	Number of fires		Acres burned	
	1980	1981	1980	1981
State total	394	508	2,439	15,152
Hawaii	177	246	420	3,823
Maui	95	120	1,741	9,284
Honolulu	105	117	200	1,924
Kauai	17	25	78	122

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 464.-- FOREST PRODUCTS HARVESTED: 1977

Forest product	Output		Unit price (dollars)	Total value (dollars)
	Unit	Amount		
All products	...	...	...	3,465,233
Logs for lumber	MBF 1	2,750	209	574,833
Logs for craftwood	Cords 2/ ..	299	224	51,330
Logs for fiber	BDT 3/	55,502	41	2,310,500
Tree fern	Cubic feet	95,000	1.42	135,000
Fuelwood from trees	Cords 2/ ..	4,191	47	194,563
Fuelwood for charcoal	Cords 2/ ..	800	34	26,820
Fuel from mill residue ...	Tons	5,000	10.50	52,500
Round posts	Posts	32,700	3.14	102,604
Split posts	Posts	3,525	2.93	10,321
Driftwood	Cords 2/ ..	2	300	600
Pallets	Number	20	20	400
Bamboo	Lineal feet	18,844	0.04	742
Kukui nuts	Tons	13.86	362	5,020

1/ Thousand board feet.

2/ One cord equals 128 cubic feet

3/ Bone dry ton, equal to 2,000 lbs. of wood at 0% moisture content.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry, Hawaiian Forest Products 1977, table II.

Table 465.-- FISHERY OPERATING UNITS AND LANDINGS: 1971 TO 1981

Year	Fishermen 1/	Vessels and boats 2/		Fishery establishments 3/	Landings 4/	
		Motor vessels	Boats		Quantity (1,000 lb.)	Value ($1,000)
1971 ...	1,533	89	812	130	16,873	5,238
1972 ...	1,732	101	839	123	14,443	5,743
1973 ...	2,091	104	1,097	125	14,035	6,115
1974 5/.	1,992	97	1,066	123	10,990	6,028
1975 ...	2,197	109	1,278	132	9,209	6,313
1976 ...	2,367	101	1,336	135	14,761	8,879
1977 ...	2,574	101	(NA)	126	13,288	10,180
1978 ...	2,409	(NA)	1,100	(NA)	12,787	12,100
1979 ...	2,447	113	1,028	(NA)	13,664	10,659
1980 ...	2,497	134	1,055	(NA)	11,435	11,870
1981 ...	2,572	147	1,119	(NA)	13,396	18,338

NA Not available.

1/ Persons licensed as commercial fishermen by the Hawaii State Department of Land and Natural Resources.

2/ A vessel is defined as a craft with a capacity of 5 net tons or more; a boat, as a craft with a capacity of less than 5 net tons.

3/ Fishery wholesaling and processing establishments.

4/ Data may differ from corresponding totals reported by the State Fish and Game Division, which, unlike the NMFS series shown here, include unsold fish.

5/ Methods of collecting data on operating units were changed in 1974.

Source: U.S. Department of Commerce, National Marine Fisheries Service, Fishery Statistics of the United States (annual, 1971-1975), and information provided August 4, 1981 and June 30, 1982.

Table 466.-- COMMERCIAL FISHING: 1962 TO 1981

[Years ended June 30. Data for 1977-1980 have been revised from the 1981 edition, table 455.]

Year	Number of commercial fishers	Commercial fish catch 1/		
		Pounds caught	Pounds sold	Value to primary producers (dollars)
1962	940	13,800,761	13,173,259	2,870,702
1963	808	10,685,604	10,629,701	2,539,189
1964	805	12,013,869	11,970,398	2,732,125
1965	717	17,105,515	17,053,925	3,340,651
1966	715	15,985,626	15,924,854	3,318,803
1967	801	12,344,555	12,274,531	3,146,177
1968	760	12,828,387	12,740,307	3,253,538
1969	1,028	10,065,623	9,974,455	2,798,424
1970	1,264	9,786,726	9,588,319	3,585,166
1971	1,373	15,176,525	14,945,539	4,633,875
1972	1,544	15,577,669	15,246,519	5,536,521
1973	1,677	14,029,491	13,719,284	5,676,783
1974	2,085	13,997,774	13,660,574	6,234,924
1975	1,991	10,801,441	10,404,019	6,242,614
1976	2,283	11,893,141	11,332,659	7,508,395
1977	2,368	15,298,515	14,763,816	9,433,781
1978	2,574	13,672,061	13,139,142	11,115,964
1979 2/ .	2,447	12,310,524	11,890,241	12,673,328
1980 2/ .	2,525	10,418,964	9,946,065	10,497,456
1981 2/ .	2,577	10,890,468	10,465,731	11,828,575

1/ Represents the total catches of all licensed commercial fishers. Includes both sea and pond catch, but excludes coral harvests.

2/ Incomplete due to unreported aku (skipjack tuna) boat and flagline boat catches.

Source: Hawaii State Department of Land and Natural Resources, Commercial Fish Landings for Fiscal Year (annual), as revised, and records.

Table 467.-- COMMERCIAL FISH CATCH, BY SPECIES: 1980

[Calendar year data.]

Species 1/	Pounds caught	Pounds sold	Value (dollars)
Total catch 2/	10,182,421	9,741,782	10,993,577
Sea catch, all species 3/	10,166,907	9,726,273	10,969,202
Aku (Skipjack) 2/	3,987,578	3,961,057	3,100,941
Ahi (Yellowfin) 2/	2,634,710	2,502,883	3,233,440
Opelu	491,141	474,114	523,071
Pacific Blue Marlin 2/	441,530	382,686	191,095
Akule	436,382	400,623	402,762
Ono 2/	265,869	237,941	451,926
Mahimahi 2/	239,004	211,666	457,572
Opakapaka	233,066	222,896	483,787
Ulua	159,642	148,239	146,201
Ahipahala (Albacore) 2/	149,623	149,433	118,646
Lobster (spiny)	98,665	97,731	587,612
Uku	75,235	72,349	161,081
Pond catch, all species	15,514	15,509	24,375

1/ Shown separately for all species over 100,000 lb. or $100,000.

2/ Data not final due to unreported aku and flagline boat catches.

3/ Including species not shown separately.

Source follows next table.

Table 468.-- COMMERCIAL FISH LANDINGS, BY ISLANDS: 1980

[Calendar year data. Incomplete due to some unreported aku boat and flagline boat catches.]

Island	Pounds caught	Value (dollars)
State total	10,182,421	10,993,578
Hawaii	3,207,279	3,884,675
Maui	1,116,640	914,665
Lanai	16,110	16,643
Molokai	26,298	27,824
Oahu	5,184,258	5,459,195
Kauai	631,836	690,576

Source: Hawaii State Department of Land and Natural Resources, Report to the Governor, 1980-81 (March 1982), pp. 15-16.

Table 469.-- MINERAL INDUSTRIES: 1958 TO 1977

Subject	1958	1963	1967	1972	1977
Including mines at manufactures					
Number of establishments	24	49	18	21	10
With 20 employees or more	8	4	5	5	3
Value added in mining (million dollars)	4.9	5.7	(D)	(D)	(D)
Excluding mines at manufactures					
Number of establishments 1/.........	20	44	12	15	7
With 20 employees or more	8	4	3	5	2
All employees: 2/					
Number (1,000)	.4	.3	.2	.3	.1
Payroll (million dollars)	1.7	1.7	1.6	2.4	1.9
Production, development, and exploration workers:					
Number 2/ (1,000)	.4	.2	.2	.2	.1
Hours (millions)	.7	.6	.4	.4	.2
Wages 2/ (million dollars)	1.4	1.5	1.3	1.8	1.5
Value added in mining (million dollars)	4.6	4.9	5.0	9.0	8.1
Cost of supplies used, purchased machinery installed, etc. (million dollars)	2.0	2.1	2.3	4.1	2.9
Value of shipments and receipts 3/ (million dollars)	5.8	6.5	5.5	11.0	9.7
Capital expenditures (million dollars)	.7	.5	1.8	2.0	1.3

Footnotes and source on next page.

Table 469.-- MINERAL INDUSTRIES : 1958 TO 1977 - Con.

(D) Withheld to avoid disclosing operations of individual companies.

1/ In 1977, 1972, and 1967, data for companies without paid employees were excluded from the census of mineral industries.

2/ For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for hours worked. No data were obtained on other employees at such operations; hence, the same employment and payroll figures are included for all employees as for production, development, and exploration workers.

3/ For crushed and broken stone, sand and gravel, clay, and gypsum, mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For all years, represents gross value of shipments and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation.

Source: U.S. Bureau of the Census, 1977 Census of Mineral Industries, Geographic Area Series, Pacific Division, MIC77-A-9 (March 1981), table 1.

Table 470.-- NONFUEL MINERAL PRODUCTION SUMMARY: 1960 TO 1981

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers.]

Year	Quantity (1,000 short tons)		Value ($1,000)			
	Cement	Stone	Total	Cement	Stone	Other minerals
1960	21	3,535	9,254	571	6,443	2,240
1961	202	4,429	14,588	5,574	7,656	1,358
1962	212	4,071	14,844	6,055	6,883	1,906
1963	279	3,844	15,307	7,125	6,480	1,702
1964	323	5,282	19,605	8,877	8,765	1,963
1965	294	5,172	20,835	8,297	9,353	3,185
1966	329	5,079	21,253	9,046	9,482	2,725
1967	262	4,100	16,936	7,360	7,207	2,369
1968	346	5,211	23,225	9,254	11,273	2,698
1969	390	6,534	29,539	10,544	16,059	2,936
1970	406	6,331	28,965	10,334	15,538	3,093
1971	386	6,056	28,107	10,627	14,357	3,123
1972	415	5,005	28,074	11,116	13,494	3,464
1973	469	7,180	35,147	13,750	18,466	2,931
1974	502	7,638	42,042	17,111	21,370	3,561
1975	469	7,569	49,710	20,704	25,319	3,687
1976	339	6,092	42,252	18,410	21,193	2,649
1977	330	5,759	39,980	16,922	19,880	3,178
1978	452	6,027	52,743	26,454	23,840	2,449
1979	481	6,869	63,904	30,423	28,969	4,512
1980 1/ ..	371	6,341	59,676	24,682	30,645	4,349
1981 2/ ..	327	6,129	58,436	23,100	30,622	4,714

1/ Revised from 1981 edition, table 460.
2/ Preliminary.
Source: U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook (annual); Minerals in the Economy of Hawaii (annual, 1978 and 1979); and "The Mineral Industry of Hawaii," Mineral Industry Surveys (annual).

Table 471.-- NONFUEL MINERAL PRODUCTION: 1980 AND 1981

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers.]

Mineral	Quantity (1,000 short tons)		Value ($1,000)	
	1980 1/	1981 2/	1980 1/	1981 2/
Total	(X)	(X)	59,676	58,436
Cement:				
Portland	358	316	23,722	22,200
Masonry	13	11	960	900
Pumice	314	373	1,200	1,515
Sand and gravel	1,035	1,050	2,855	2,900
Stone:				
Crushed	6,341	6,129	30,634	30,610
Dimension	(W)	(W)	11	12
Other nonmetals 3/	(X)	(X)	294	299

W Withheld to avoid disclosing company proprietory data; included with "other nonmetals."

X Not applicable.

NA Not available.

1/ Revised from 1981 edition, table 461.

2/ Preliminary.

3/ Includes items indicated by symbol W.

Source: U.S. Bureau of Mines, "The Mineral Industry of Hawaii in 1981," Mineral Industry Surveys (January 21, 1982).

Section 21

CONSTRUCTION AND HOUSING

This section presents statistics on construction activity and costs, the size and composition of the housing inventory, occupancy of housing, sales, and residential financing.

There were 21,395 building permits issued in 1981, with an estimated value of $898 million. The total included $460 million for private residential construction and $346 million for private nonresidential structures. The value of government construction contracts awarded was $428 million. Construction put in place, as indicated by the contracting tax base, totaled $693 million in 1971 and $1.6 billion in 1981. The value of land transfers in 1982 was $2.9 billion. Mortgage loans outstanding at the end of 1980 amounted to $7.1 billion. The July 1982 construction cost index for Honolulu (1967=100) was 302.3 for single-family residences and 327.0 for high-rise buildings.

The number of housing units in the State increased from 239,000 in 1972 to 349,000 in 1982. Owner occupied units numbered 101,000 in 1972 and 144,000 in 1982; the latter total included 106,000 on land owned in fee simple and 37,000 on leased land. Condominium units, first authorized in 1961, numbered 90,000 at the end of 1981. Military and public housing accounted for 26,000 units as of 1982. Housing was in short supply throughout most of the past decade: on Oahu, the vacancy rate in March 1982, according to the Federal Home Loan Bank, was only 1.7 percent. The average selling price of single family homes on Oahu during 1981, based on Multiple Listing Service data, was $192,000; for condominium units it was $111,000. The median contract monthly rent for the State rose from $120 in 1970 to $271 in 1980, and the median value of owner occupied single-family units increased from $35,100 to $118,100.

The principal sources for these data are the 1970 and 1980 U.S. Censuses of Housing, postal vacancy surveys issued by the Federal Home Loan Bank, various series compiled by State and County agencies (primarily the Hawaii Housing Authority, Hawaii State Department of Planning and Economic Development, Department of Commerce and Consumer Affairs, Department of Taxation, and Bureau of Conveyances, and the four County building departments), the construction cost indexes prepared by the First Hawaiian Bank, and the Honolulu Board of Realtors reports on Multiple Listing Service activity. Many of these series are summarized in reports published by the Bank of Hawaii (particularly Construction in Hawaii, issued annually) and the First Hawaiian Bank. Persons interested in figures for earlier periods should consult Historical Statistics of Hawaii, Section 15. Mainland statistics appear in Section 28 of Statistical Abstract of the United States: 1981.

Table 472.-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTIES: 1971 TO 1981

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
1971	24,562	17,239	3,876	556	2,891
1972	25,342	17,706	3,982	862	2,792
1973	30,581	22,767	4,260	1,132	2,422
1974	26,027	19,169	3,635	1,066	2,157
1975	23,287	16,514	3,506	1,255	2,012
1976	23,453	15,937	3,535	1,195	2,786
1977	23,406	15,793	3,536	1,173	2,904
1978	25,807	17,758	3,938	1,470	2,641
1979	26,515	18,297	4,062	1,540	2,616
1980	22,771	15,729	3,732	1,210	2,040
1981	21,395	15,141	3,427	1,276	1,551
ESTIMATED VALUE ($1,000)					
1971	416,695	298,630	61,237	15,768	41,060
1972	508,261	364,835	69,016	25,741	48,669
1973	649,121	480,639	56,376	31,578	80,528
1974	831,897	594,896	85,350	36,745	114,906
1975	744,494	495,871	69,691	53,099	125,833
1976	581,226	411,497	58,137	29,921	81,671
1977	534,278	356,591	62,088	32,060	83,539
1978	756,757	421,692	81,965	59,858	193,242
1979	984,559	566,991	144,768	118,453	154,347
1980	1,278,911	745,565	146,395	133,261	253,690
1981	898,428	550,254	136,617	67,844	143,713

Source: City and County of Honolulu Department of Buildings, *Summary of Building Permits* (annual); Hawaii, Kauai, and Maui County departments of public works, records.

Table 473.-- VALUE OF BUILDING PERMITS, RESIDENTIAL AND NONRESIDENTIAL, BY COUNTIES: 1971 TO 1981

[In thousands of dollars. Limited to private construction, including additions, alteration, and repairs.]

Category and year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
RESIDENTIAL					
1971	254,145	181,246	36,926	10,017	25,957
1972	323,756	228,104	42,657	19,808	33,188
1973	460,490	347,767	39,045	21,829	51,850
1974	538,869	376,170	49,995	19,992	92,711
1975	382,552	228,155	38,698	20,009	95,690
1976	259,348	179,674	29,243	13,346	37,086
1977	311,333	192,334	39,505	21,197	58,298
1978	437,601	223,539	60,963	49,005	104,094
1979	588,685	288,863	91,942	100,024	107,857
1980	736,624	338,259	108,360	74,795	215,209
1981	460,136	226,148	73,819	41,368	118,802
NONRESIDENTIAL					
1971	113,709	86,047	19,236	3,126	5,300
1972	131,274	98,840	16,614	3,256	12,563
1973	137,873	94,123	11,666	6,799	25,284
1974	209,904	156,961	23,920	10,908	18,114
1975	227,272	179,006	11,018	16,086	21,163
1976	196,425	144,455	10,505	3,755	37,710
1977	153,570	118,429	11,850	6,822	16,469
1978	233,006	147,059	13,408	7,711	64,829
1979	290,249	217,219	20,547	13,896	38,587
1980	480,594	346,217	37,598	58,299	38,480
1981	345,640	228,049	62,637	25,943	29,011

Source: First Hawaiian Bank, Hawaii's Economic Indicators. Sources, Definitions, and Trends (March 1980), pp. 28-30 and 35-37, and Hawaii in 1981 (April 1982).

Table 474.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY AWARDING AGENCY: 1961 TO 1981

[In thousands of dollars.]

Calendar year 1/	Total	Federal agencies	State agencies	City and County of Honolulu	Other counties
1961 ...	68,635	13,872	29,010	23,707	2,047
1962 ...	69,357	17,563	23,039	25,321	3,434
1963 ...	81,136	16,533	38,717	19,785	6,101
1964 ...	87,003	44,309	20,725	21,757	212
1965 ...	139,753	64,963	46,052	28,635	102
1966 ...	76,788	24,175	28,748	19,539	4,326
1967 ...	137,567	34,581	63,889	35,777	3,320
1968 ...	141,910	38,285	64,297	37,010	2,318
1969 ...	256,288	59,125	165,801	24,818	6,544
1970 ...	176,237	34,508	107,808	30,507	3,414
1971 ...	175,348	54,479	99,500	17,886	3,483
1972 ...	214,612	71,254	117,395	17,101	8,862
1973 ...	261,723	118,052	97,783	36,294	9,594
1974 ...	299,361	102,193	148,731	25,002	23,435
1975 ...	450,250	94,546	227,781	102,007	25,916
1976 ...	382,333	135,817	146,819	58,680	41,017
1977 ...	286,452	85,415	135,360	43,772	21,905
1978 ...	290,004	94,648	155,463	24,999	14,894
1979 2/.	388,694	105,683	221,018	45,946	16,048
1980 ...	230,619	66,510	119,994	25,632	18,483
1981 ...	427,534	176,136	180,542	59,056	11,799

1/ By date of publication.

2/ Revised from 1980 edition, table 409.

Source: Hawaii State Department of Planning and Economic Development, Government Construction Contracts Awarded in Hawaii, 1961-1978 (Statistical Report 129, December 13, 1978), table 1; and Trade Publishing Company, BIDService Weekly.

Table 475.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY LOCATION OF CONSTRUCTION: 1961 TO 1981

[In thousands of dollars.]

Calendar year 1/	Total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1961 ...	68,635	54,443	7,271	3,749	3,172
1962 ...	69,357	56,920	4,622	2,493	5,323
1963 ...	81,136	64,856	9,012	824	6,445
1964 ...	87,003	73,417	5,039	4,953	3,594
1965 ...	139,753	126,970	2,118	7,026	3,639
1966 ...	76,788	61,308	5,066	6,658	3,758
1967 ...	137,567	114,903	13,502	3,085	6,077
1968 ...	141,910	120,075	12,083	6,126	3,627
1969 ...	256,288	207,413	36,078	6,852	5,944
1970 ...	176,237	143,828	17,084	3,595	11,730
1971 ...	175,348	149,369	14,622	4,845	6,512
1972 ...	214,612	179,159	19,684	7,927	7,842
1973 ...	261,723	228,427	19,616	7,709	5,971
1974 ...	299,361	243,465	34,842	15,095	5,959
1975 ...	450,250	354,020	41,576	31,580	23,075
1976 ...	382,333	294,072	38,656	14,310	35,296
1977 ...	286,452	221,126	26,884	11,579	26,863
1978 ...	290,004	224,074	23,384	10,140	32,406
1979 ...	388,694	313,105	33,411	12,954	29,224
1980 ...	230,619	168,131	33,766	11,079	17,642
1981 ...	427,534	349,034	48,202	17,520	12,778

1/ By date of publication.

Source: Hawaii State Department of Planning and Economic Development, Government Construction Contracts Awarded in Hawaii, 1961-1978 (Statistical Report 129, December 13, 1978), table 1; and Trade Publishing Company, BIDService Weekly.

Table 476.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1970 TO 1981

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
New 1-family dwellings:						
1970	5,399	3,809	1,590	796	320	474
1971	5,802	3,771	2,031	1,014	348	669
1972	5,852	3,353	2,499	1,152	515	832
1973	5,420	3,008	2,412	1,143	424	845
1974	3,455	1,626	1,829	839	401	589
1975	3,042	1,078	1,964	826	343	795
1976	3,386	1,326	2,060	821	366	873
1977	4,790	2,210	2,580	1,070	429	1,081
1978	5,006	2,075	2,931	1,382	555	994
1979	5,997	3,046	2,951	1,429	512	1,010
1980	4,072	1,650	2,422	1,192	427	803
1981	2,551	768	1,783	1,032	353	398
New duplex units:						
1970	228	212	16	6	6	4
1971	100	70	30	28	-	2
1972	124	112	12	4	6	2
1973	326	312	14	6	4	4
1974	484	464	20	4	14	2
1975	242	112	130	12	16	102
1976	110	56	54	-	46	8
1977	100	84	16	4	2	10
1978	278	260	18	-	12	6
1979	208	134	74	16	44	14
1980	84	46	38	12	24	2
1981	164	42	122	18	38	66

Continued on next page.

Table 476.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1970 TO 1981 -- Con.

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
New apartments:						
1970	5,122	3,957	1,165	389	67	709
1971	5,623	4,017	1,606	830	29	747
1972	9,023	6,952	2,071	850	365	856
1973	11,864	9,745	2,119	493	339	1,287
1974	15,203	11,070	4,133	990	501	2,642
1975	7,031	4,240	2,791	499	186	2,106
1976	3,492	3,142	350	129	-	221
1977	3,129	2,389	740	129	83	528
1978	4,327	2,111	2,216	282	610	1,324
1979	4,800	1,854	2,946	737	1,125	1,084
1980	5,163	1,854	3,309	727	769	1,813
1981	3,135	1,873	1,262	267	60	935
Units demolished:						
1970 1/	930	642	288	100	112	76
1971	857	596	261	80	87	94
1972	956	669	287	70	82	135
1973	1,156	874	282	102	60	120
1974	983	703	280	162	73	45
1975	913	632	281	135	11	135
1976	857	613	244	92	6	146
1977	906	696	210	96	15	99
1978	696	558	138	81	5	52
1979	611	460	151	60	15	76
1980	766	665	101	63	6	32
1981	686	521	165	21	70	74

1/ Hawaii and Maui Counties estimated.

Source: Compiled from County building departments by the Hawaii State Department of Planning and Economic Development.

Table 477.-- ESTIMATED VALUE PER UNIT, BY TYPE OF STRUCTURE, FOR BUILDING PERMITS ISSUED BY THE CITY AND COUNTY OF HONOLULU: 1976 TO 1981

[In dollars. Excludes building permits for additions, alterations and repair.]

Year issued	Single-family	Two-family	Multi-family	Hotel 1/
1976	37,138	27,793	32,335	25,506
1977	36,668	29,366	34,900	(2/)
1978	51,329	35,877	[illegible],209	(2/)
1979	54,373	43,041	43,399	(2/)
1980	52,755	72,768	65,660	54,301
1981	72,044	69,071	70,710	(2/)

1/ Estimated value per room.
2/ No permit issued.
Source: City and County of Honolulu Department of Building, "Summary of Building Permits" (annual), and records.

Table 478.-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF HAWAII: 1979 TO 1981

Calendar year	Projects	Units	
		Residential	Business or commercial
1979	150	11,805	82
1980	156	9,953	594
1981	98	3,172	1,213

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 479.-- NUMBER OF CONDOMINIUM UNITS BUILT AND STANDING: 1971 TO 1981

Year	Condominium units added to inventory during year					Condominium units standing, Dec. 31
	All types	1-family and duplex	Town-house	Low-rise	High-rise	
1971	4,318	-	1,062	382	2,874	19,638
1972	2,835	12	770	914	1,139	22,473
1973	6,741	36	1,596	1,619	3,490	29,214
1974	9,275	235	1,775	2,112	5,153	38,489
1975	10,798	68	1,760	2,922	6,043	49,287
1976	7,357	112	655	260	6,330	56,644
1977	3,321	40	942	883	1,456	59,965
1978	3,210	4	604	810	1,792	63,175
1979	6,816	97	1,156	1,447	4,116	69,991
1980	10,441	74	3,263	2,553	4,551	80,432
1981	9,704	67	2,745	4,825	2,067	90,136

Source: Bank of Hawaii, Construction in Hawaii, 1982 (1982), p. 7, as corrected.

Table 480.-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO CONDOMINIUM UNITS: 1963 TO 1981

Calendar year	Projects	Housing units
1963-69	20	768
1970-74 1/	33	1,680
1975-79 1/	83	4,041
1980	71	3,397
1981	27	661
Total, 1963-81	234	10,547

1/ For annual data, see the 1981 Data Book, table 471.

Source: 1963-1980 compiled by Real Estate Research Center, College of Business Administration, University of Hawaii, from the records of the Hawaii Real Estate Commission; 1981 from Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 481.-- HONOLULU CONSTRUCTION COST INDEXES: 1972 TO 1982

[1967=100. Data are annual averages unless otherwise specified.]

Year	Single-family residence			High-rise building		
	All components	Materials prices	Labor 1/	All components	Materials prices	Labor 1/
1972	135.2	123.1	150.6	133.6	114.6	150.0
1973	154.7	150.0	160.9	144.9	129.7	160.6
1974	164.6	159.0	171.6	163.7	154.6	175.6
1975	175.7	167.1	186.6	178.8	171.3	185.3
1976	193.9	176.3	215.9	199.1	178.5	216.9
1977	221.2	197.7	251.2	221.9	188.1	251.2
1978	243.4	218.7	274.5	241.3	204.7	273.1
1979	266.2	248.3	288.8	264.3	237.6	287.5
1980	283.2	263.8	307.8	290.1	270.5	307.1
1981	291.2	254.2	337.9	308.2	274.6	337.4
1982: July 2/	302.3	249.0	369.6	327.0	279.5	368.2

1/ Wages and benefits.
2/ Preliminary.
Source: First Hawaiian Bank, Research Division, records.

Table 482.-- CHARACTERISTICS OF CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1972 AND 1977

Industry	SIC code	Number of establishments		Proprietors and working partners	
		1972	1977	1972	1977
Construction industries and subdividers and developers	...	2,318	3,170	1,327	2,020
Construction industries	15-17	2,183	3,029	1,265	1,848
General building contractors and operative builders ...	15	703	843	343	459
Heavy construction general contractors	16	92	114	39	50
Special trade contractors ..	17	1,387	2,072	882	1,340
Subdividers and developers, n.e.c.	6552	135	145	62	172

Industry	SIC code	All employees 1/		All business receipts ($1,000)	
		1972	1977	1972	1977
Construction industries and subdividers and developers	...	25,012	20,792	1,109,328	1,508,865
Construction industries	15-17	24,460	20,187	1,046,508	(D)
General building contractors and operative builders ...	15	9,900	7,944	563,928	779,765
Heavy construction general contractors	16	3,147	2,319	124,794	(D)
Special trade contractors ..	17	11,413	9,924	357,785	469,024
Subdividers and developers, n.e.c.	6552	552	607	62,819	(D)

D Withheld to avoid disclosing data for individual companies.

n.e.c. Not elsewhere classified.

1/ Average of totals for mid-March, mid-May, mid-August, and mid-November.

Source: U.S. Bureau of the Census, 1977 Census of Construction Industries, Geographic Area Series, Pacific States, CC77-A-9 (August 1980), p. 51-4.

Table 483.-- GENERAL EXCISE TAX BASE FOR CONTRACTING AND RENTALS: 1971 TO 1981

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems.]

Year reported 1/	Contracting	Rentals		
		Total	Hotel rentals	All other rentals 2/
1971	692,938	573,606	198,539	375,067
1972	695,939	649,954	227,058	422,895
1973	904,629	761,447	264,519	496,928
1974	1,027,195	893,347	319,109	574,237
1975	1,161,913	1,019,792	365,919	653,873
1976	1,012,952	1,161,955	433,300	728,655
1977 3/	983,618	1,274,918	482,990	791,929
1978 3/	1,060,898	1,392,947	535,874	857,073
1979	1,325,460	1,699,947	672,098	1,027,848
1980	1,569,658	1,820,715	708,620	1,112,095
1981	1,613,764	2,040,505	770,705	1,269,800

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes residential, office, automobile, and equipment rentals, and land leases.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 484.-- TENURE AND CONTROL OF HOUSING UNITS: 1970 TO 1982

Year	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units		
		Land owned	Land leased	Private 3/	Federal 4/	State and County 4/
1970 ...	216,774	68,422	20,802	106,821	14,439	6,290
1971 ...	228,749	72,086	21,732	113,531	15,089	6,311
1972 ...	238,770	75,939	24,565	117,111	14,959	6,196
1973 ...	250,742	78,878	26,776	123,934	15,071	6,083
1974 ...	266,828	82,494	30,333	131,368	16,373	6,260
1975 ...	284,120	85,264	30,543	145,276	16,386	6,651
1976 ...	298,339	88,284	33,730	152,578	17,225	6,522
1977 ...	306,989	89,980	34,549	158,223	17,493	6,744
1978 ...	315,513	92,989	35,869	161,728	18,653	6,274
1979 ...	324,261	96,273	36,540	165,045	19,022	7,381
1980 ...	334,235	100,478	36,986	170,963	19,437	6,371
1981 ...	342,873	104,677	37,413	174,753	19,427	6,603
1982 ...	348,980	106,147	37,372	179,579	19,392	6,490

NA Not available.

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions. The number of owner occupied housing units reported by the U.S. Census of Housing is somewhat higher than the corresponding number based on taxpayer home exemptions, chiefly because of differences in definitions. Data for 1977-1982 refer to January 1; data for 1970-1976, to July 1.

3/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus not attributable to any specific date.

4/ As of April 1. Data include housing units leased from private owners.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1982 (Statistical Report 156, July 28, 1982), table 3.

Table 485.-- HOUSING UNITS STANDING, BY COUNTIES: ANNUALLY, 1970 TO 1982

[As of April 1.]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
1970 ..	216,774	174,742	42,032	18,972	9,021	14,039
1971 ..	228,749	184,101	44,648	20,061	9,298	15,289
1972 ..	238,770	190,973	47,797	21,648	9,555	16,594
1973 ..	250,742	198,970	51,772	23,578	10,092	18,102
1974 ..	266,828	210,940	55,888	25,282	10,700	19,906
1975 ..	284,120	223,647	60,473	26,694	11,347	22,432
1976 ..	298,339	232,669	65,670	28,131	11,934	25,605
1977 ..	306,989	237,571	69,418	29,453	12,433	27,532
1978 ..	315,513	243,103	72,410	30,579	12,841	28,990
1979 ..	324,261	247,465	76,796	32,283	13,610	30,903
1980 ..	334,235	252,038	82,197	34,215	14,828	33,154
1981 ..	342,873	254,969	87,904	36,180	16,314	35,410
1982 ..	348,980	256,967	92,013	37,738	17,081	37,194

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1982 (Statistical Report 156, July 28, 1982), table 4.

Table 486.-- TENURE AND CONTROL OF HOUSING UNITS, BY COUNTIES: 1982

County	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units 3/		
		Land owned	Land leased	Private 4/	Federal 1/	State and County 1/
State total	348,980	106,147	37,372	179,579	19,392	6,490
City & Co. of Honolulu	256,967	72,839	35,539	124,443	19,244	4,902
County of Hawaii	37,738	16,279	1,026	19,378	56	999
County of Kauai	17,081	5,930	138	10,697	64	252
County of Maui	37,194	11,099	669	25,061	28	337

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions, as of January 1.

3/ Data for both Federal and State agencies include housing units leased by these agencies from private owners. All data are as of April 1.

4/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus are not attributable to any specific date.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1982 (Statistical Report 156, July 28, 1982), table 2.

Table 487.-- GENERAL HOUSING CHARACTERISTICS: 1980

Subject	Amount
Year-round housing units	
2 or more complete bathrooms (percent)	34.1
Complete kitchen facilities (percent)	97.4
Water from public system or private company (percent)	98.6
Sewage disposal by public sewer (percent)	81.6
Air conditioning (percent)	16.0
No house heating (percent)	89.2
Built before 1940 (percent)	10.0
3 or more bedrooms (percent)	46.5
4 stories or more in structure (percent)	19.4
With elevator (percent of units in such structures)	91.9
Occupied housing units	
Householder moved into unit before 1975 (percent)	44.2
With telephone (percent)	94.8
Electric water heating (percent)	73.2
Electric cooking (percent)	78.2
Owner-occupied housing units	
With mortgage (percent)	73.4
Median monthly owner costs: Mortgaged units (dollars)	466
Median monthly owner costs: Not mortgaged (dollars)	113
Renter-occupied housing units	
Median gross rent (dollars)	308

Source: U.S. Bureau of the Census, *1980 Census of Population and Housing, Provisional Estimates of Social, Economic, and Housing Characteristics*, PHC80-S1-1 (March 1982), pp. 71, 81, and 91.

Table 488.-- GENERAL HOUSING CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total 1/	City and County of Honolulu	Other counties		
			Hawaii	Kauai	Maui
Persons in occupied units	925,092	725,865	90,436	38,679	70,008
Per occupied unit	3.15	3.15	3.09	3.22	3.11
Total housing units	334,235	252,038	34,215	14,828	33,033
Year-round housing units:					
Number	332,213	250,866	33,954	14,544	32,728
Median rooms	4.4	4.3	4.7	4.6	3.9
One unit at address (percent) ..	59.5	56.6	76.1	81.1	54.9
Lacking complete plumbing for exclusive use (percent)	2.3	1.5	7.0	4.8	2.9
Occupied housing units:					
Number	294,052	230,214	29,237	12,020	22,510
With 1.01 or more persons per room (percent)	15.3	15.5	13.0	15.2	16.4
Owner-occupied units:					
Number	151,954	114,831	17,731	6,429	12,963
Percent of occ. units	51.7	49.9	60.6	53.5	57.6
Median value 2/ ($1,000)	118.1	129.5	71.2	89.7	112.1
Renter-occupied units:					
Number	142,098	115,383	11,506	5,591	9,547
Median contract rent 3/ (dollars)	271	276	220	176	306
Vacant units, total 4/	38,161	20,652	4,717	2,524	10,218
For sale only	2,153	1,321	455	98	278
Homeowner vacancy rate	1.4	1.1	2.5	1.5	2.1
For rent	16,289	9,002	1,883	1,490	3,913
Rental vacancy rate	10.3	7.2	14.1	21.0	29.1
Rented or sold, awaiting occupancy	4,518	2,415	835	321	946
Held for occasional use	4,409	2,311	853	318	906
Other vacant	10,792	5,603	691	297	4,175
Condominium units, total	71,708	56,390	3,072	1,853	10,393
Owner-occupied	24,730	23,474	298	86	872
Renter-occupied	22,053	19,812	726	154	1,361
Vacant 4/	24,925	13,104	2,048	1,613	8,160

Footnotes and source no next page.

Table 488.-- GENERAL HOUSING CHARACTERISTICS, BY COUNTIES: 1980 -- Con.

1/ Includes Kalawao County (121 housing units), not shown separately in this table.

2/ Estimated market value of property (house and lot), for one-family houses on less than 10 acres. The median value of owner-occupied condominium units was $98,600.

3/ Excluding no cash rent.

4/ Units temporarily occupied, or intended for occupancy, entirely by persons who have a usual residence elsewhere are classified as vacant. Shared ownership or time-sharing condominiums are classified as "vacant, held for occasional use."

Source: U.S. Bureau of the Census, 1980 Census of Housing, General Housing Characteristics, Hawaii, HC80-1-A13 (July 1982), tables 1, 5, 7, 46 and 48.

Table 489.-- CHARACTERISTICS OF SINGLE-FAMILY AND MULTIFAMILY DEVELOPMENTS, FOR OAHU: 1976 TO 1981

Year	Single-family developments				Multifamily developments 1/		
	Average area (square feet)		Units sold	Average price (dollars)	Average living area (sq. ft.)	Units sold	Average price (dollars)
	House	Lot					
1976 ..	1,259	6,151	658	77,895	1,181	917	56,275
1977 ..	1,261	6,167	1,164	79,266	1,125	553	56,543
1978 ..	1,442	5,932	1,566	102,479	1,133	438	68,149
1979 ..	1,493	4,753	1,696	114,731	1,153	346	87,480
1980 ..	1,291	4,631	813	131,693	1,190	740	93,428
1981 ..	1,389	5,698	354	157,026	1,215	278	103,310

1/ Four stories or under.

Source: Bank of Hawaii, Construction in Hawaii, 1982 (1982), pp. 9-10.

Table 490.-- HAWAII HOUSING AUTHORITY OPERATIONS: 1971 TO 1981

Year	Units owned by HHA 1/		Population in units 1/	Total assets 1/ ($1,000)
	Total	Occupied		
1971	4,917	4,683	18,806	75,003
1972	5,403	5,333	19,368	80,848
1973	5,406	5,361	19,078	82,060
1974	5,547	5,407	18,898	72,826
1975	5,442	5,419	18,175	81,169
1976	5,515	5,498	17,783	88,426
1977 3/ ...	5,555	5,524	18,214	80,843
1978	5,404	5,349	16,799	83,098
1979	5,461	5,391	16,819	103,787
1980	5,466	5,459	17,522	327,960 4/
1981	5,632	5,593	17,935	337,920 4/

Year	Operating revenues of HHA 2/ ($1,000)		Operating revenues per unit per mo. 2/ (dollars)	Rent charged per unit per month (dollars) 2/
	Gross	Net		
1971	6,238	54	111.00	67.61
1972	6,006	22	93.84	70.05
1973	6,175	19	95.98	73.26
1974	6,940	100	106.95	84.94
1975	7,186	422	106.85	67.88
1976	8,057	128	136.38	68.18
1977 3/ ...	8,696	-767	103.36	97.05
1978	7,619	387	129.06	108.42
1979	8,488	788	131.69	121.98
1980 5/ ...	8,633	598	163.91	125.70
1981 5/ ...	10,635	920	193.58	141.27

1/ As of June 30.

2/ Year ended June 30.

3/ Gross operating revenue includes Federal subsidies of $1,843,000. Net loss reflects the utilization of operating reserves absorbing the excess of expenditures over receipts.

4/ Replacement cost estimate at $60,000/unit.

5/ Federal projects only; revenue amounts include Federal subsidies.

Source: Hawaii Housing Authority, records.

Table 491.-- HOUSING VACANCY SURVEYS OF OAHU: 1977 TO 1982

[Sponsored by the Federal Home Loan Bank of Seattle and conducted by U.S. mail carriers. Data for 1977-1981 have been adjusted to include newly completed but vacant units, omitted from base in earlier reports.]

Year and month	Total units	Vacant units				Units under construction
		Used and new		Used	New	
		Number	Percent			
1977: April 1/ .	215,923	5,472	2.5	3,399	2,073	2,228
1978: March	226,103	5,178	2.3	3,312	1,866	4,820
1979: May	233,631	4,081	1.7	2,584	1,497	4,754
1980: March	238,028	5,104	2.1	3,039	2,065	3,980
1981: March	240,354	5,235	2.2	3,306	1,929	2,400
1982: March	244,077	4,130	1.7	2,665	1,465	1,087

1/ Dated March 1977 in the original report but April 1977 thereafter. For survey data for 1955-1976, see Historical Statistics of Hawaii, p. 397.

Source: Federal Home Loan Bank of Seattle, Honolulu Housing Vacancy Survey (annual), as adjusted to 1982 definitions.

Table 492.-- HOUSING VACANCY SURVEY OF OAHU: MARCH 1982

[Sponsored by the Federal Home Loan Bank of Seattle and conducted by U.S. mail carriers.]

Subject	All housing types	Single-family units	Multi-family units	Mobile homes
Total units	244,077	118,323	125,753	-
Vacant units	4,130	1,314	2,816	-
Used	2,665	551	2,114	-
New	1,465	763	702	-
Percent vacant	1.7	1.1	2.2	...
Units under construction ..	1,087	602	485	-

Source: Federal Home Loan Bank of Seattle, Honolulu, Hawaii, Housing Vacancy Survey, March, 1982.

Table 493.-- VACANCY RATES FOR HOUSING ON OAHU AND THE NEIGHBOR ISLANDS: QUARTERLY, 1970 TO 1982

[Percent vacant, based on housing units sampled for the Hawaii Health Surveillance Program survey. Units occupied by households temporarily absent were classified as occupied. The base excludes units occupied by transients.]

Year	Oahu 1/				Other islands 2/			
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.
1970 ..	4.0	3.4	2.7	3.9	...	2.1	4.1	2.5
1971 ..	4.6	3.2	2.2	2.4	3.6	4.6	6.4	5.9
1972 ..	3.8	4.2	3.5	2.4	4.8	6.5	4.7	6.0
1973 ..	2.7	2.6	2.4	2.9	4.4	5.0	4.7	6.0
1974 ..	4.4	4.2	4.7	2.2	6.5	3.9	3.6	4.7
1975 ..	3.0	5.0	8.2	5.8	6.7	7.0	8.2	5.8
1976 3/	...	...	4.7	5.4	...	...	5.5	5.7
1977 ..	5.3	5.9	6.5	6.5	6.4	5.3	6.9	2.8
1978 ..	4.3	2.8	3.6	4.2	6.7	4.1	3.9	3.7
1979 ..	2.7	3.0	2.3	3.1	4.0	6.0	2.8	3.9
1980 ..	2.6	4.8	4.3	3.8	2.8	5.4	5.5	5.6
1981 ..	3.0	5.4	5.0	4.5	5.7	5.7	6.4	5.4
1982 ..	3.4	2.9			4.2	5.3		

1/ Based on quarterly samples of 592 to 1,731 units before 1978 and 745 to 1,081 units in 1978-1982.

2/ Based on quarterly samples of 274 to 1,055 units before 1978 and 505 to 1,027 units in 1978-1982. Data are unavailable for the first quarter of 1970.

3/ Survey suspended during the first half of 1976.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 494.-- MOBILITY OF HOUSEHOLD HEADS, BY MILITARY STATUS AND COUNTIES: 1980

[Based on place of residence one year prior to survey date.]

Island and military status of household head 1/	All household heads	Non-movers	Movers		Mobility not reported
			Number	Percent 2/	
State total	287,009	243,663	40,654	14.3	2,692
Military	27,836	16,565	11,187	40.3	84
Civilian	258,833	227,098	29,370	11.5	2,365
Status not reported	340	-	96	100.0	243
Oahu	223,674	189,134	32,576	14.7	1,964
Military	27,785	16,565	11,136	40.2	84
Civilian	195,600	172,569	21,343	11.0	1,688
Status not reported	289	-	96	100.0	193
Other islands	63,334	54,529	8,077	12.9	728
Hawaii	29,382	25,488	3,410	11.8	484
Kauai	11,440	10,449	955	8.4	36
Maui, Molokai, and Lanai	22,512	18,592	3,712	16.6	208

1/ Military status of household head at the time of the survey.
2/ Based on number reporting.
Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 495.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR OAHU: 1957 TO 1981

[Data include 1-family and condominium properties for all years and cooperative, income, and vacant properties through 1977.]

Year	Number listed	Sold		
		Number	Percent	Average selling price (dollars)
1957	1,805	924	51.2	19,694
1958	2,064	936	45.3	21,365
1959	1,666	967	58.0	23,560
1960	1,868	795	42.6	27,808
1961	1,847	541	29.3	29,144
1962	1,522	515	33.8	29,332
1963	1,743	624	35.8	30,323
1964	1,934	882	45.6	32,951
1965	1,854	910	49.1	35,727
1966	2,137	813	38.0	35,652
1967	2,124	963	45.3	38,810
1968	2,375	1,133	47.7	42,546
1969	2,606	1,422	54.6	46,333
1970	3,415	1,693	49.6	44,755
1971	4,165	2,157	51.8	58,651
1972	6,022	4,555	75.6	60,810
1973	7,845	5,348	68.2	70,769
1974	10,933	4,821	44.1	70,918
1975	11,271	4,174	37.0	71,485
1976	10,627	4,311	40.6	75,483
1977	10,597	5,523	52.1	81,213
1978-1979 1/ .	9,926	5,714	57.6	82,076
1979-1980 1/ .	13,506	8,009	59.3	103,698
1980-1981 1/ .	14,090	5,553	39.4	124,897
1981 2/	13,799	3,735	27.1	144,227

1/ Year ended February 28 or 29.
2/ Data cover period of March through December only.
Source: Honolulu Board of Realtors, records.

Table 496.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES OF RESIDENTIAL AND CONDOMINIUM UNITS, FOR OAHU: 1972 TO 1981

Year	Number of units listed		Number of units sold	
	Residential	Condominium	Residential	Condominium
1972	3,472	2,080	2,891	1,306
1973	4,148	3,185	2,699	2,379
1974	4,826	4,912	2,246	2,302
1975	4,821	5,323	2,265	1,715
1976	4,791	4,903	2,472	1,650
1977	4,452	5,422	2,985	2,285
1978-1979 1/ ...	3,522	6,404	2,139	3,575
1979-1980 1/ ...	4,105	9,401	2,253	5,756
1980-1981 1/ ...	4,352	9,738	1,820	3,733
1981	2/ 4,012	2/ 8,708	1,532	2,436

Year	Percent of listed units sold		Average selling price (dollars)	
	Residential	Condominium	Residential	Condominium
1972	83.3	62.8	65,723	43,869
1973	65.1	74.7	85,914	46,811
1974	46.5	46.9	83,611	54,956
1975	47.0	32.2	83,797	55,596
1976	51.6	33.7	85,691	59,842
1977	67.0	42.1	94,028	61,484
1978-1979 1/ ...	60.7	55.8	114,264	67,783
1979-1980 1/ ...	54.9	61.2	151,775	84,880
1980-1981 1/ ...	41.8	38.3	169,107	103,342
1981	2/ 34.1	2/ 24.9	191,597	111,056

1/ Year ended February 28 or 29.
2/ Data cover period of March through December only.
Source: Honolulu Board of Realtors, records.

Table 497.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES OF RESIDENTIAL UNITS, BY NUMBER OF BEDROOMS, FOR OAHU: 1981

[Data cover the period of March through December only.]

Type of property	Number of units listed	Units sold		Selling price of units sold	
		Number	Percent	Total ($1,000)	Per unit (dollars)
All units	4,012	1,370	34.1	1/ 261,995	1/ 191,797
No bedrooms	13	10	76.9	2,779	277,850
1 or 2 bedrooms	296	103	34.8	17,100	166,024
3 bedrooms	2,202	795	36.1	136,570	171,786
4 or more bedrooms	1,489	458	30.8	105,546	230,449
Unspecified	12	4	33.3	(NA)	(NA)

NA Not available.

1/ Excludes units with unspecified number of bedrooms.

Source: Honolulu Board of Realtors, records.

Table 498.-- OFFICE BUILDING OCCUPANCY, FOR HONOLULU: QUARTERLY, 1980 TO 1982

[Floor area occupied as percent of total floor area of offices surveyed. Most of the office buildings surveyed are in the Honolulu central business district, but a few are at other locations in Honolulu.]

Year	1st quarter	2nd quarter	3rd quarter	4th quarter
1980	96.6	97.9	...	98.6
1981	98.7	...	98.8	97.5
1982	...	92.4		

Source: Building Owners and Managers Association, Hawaii, Newsletter (monthly).

Table 499.-- OFFICE SPACE IN DOWNTOWN HONOLULU: 1949 TO 1982

[As of December 31.]

Year	Buildings	Office space (square feet)
1949	9	423,500
1959	14	580,100
1964	20	937,700
1969	30	1,960,100
1974	37	3,403,700
1979	42	4,192,200
1980	43	4,274,200
1981	43	4,274,200
1982 1/	45	4,760,800

1/ Projected.

Source: Data from Hastings, Martin, Chew and Associates, as updated, in Hawaii Business, April 1982, p. 40.

Table 500.-- AVERAGE BASE RENT AND VACANCY RATE, FOR HONOLULU OFFICE BUILDINGS: 1979 TO 1982

[As of June.]

Year	Average base rent (dollars per sq. ft. per year)		Vacancy rate (percent)
	New buildings	Old buildings	
1979	10.80	9.00	2.0
1980	12.00	10.00	1.5
1981	17.40	13.20	0.4
1982	21.00	19.80	6.6

Source: Howard Ecker and Co., Chicago, "Renters Market Blooms for Honolulu Office Space Users as Building Boom Reaches New Heights," release dated June 1, 1982, reporting results of 12th semi-annual Ecker Survey.

Table 501. -- NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1972 TO 1982

Year ended June 30	Number of deeds filed and recorded	Approximate value of land conveyed (dollars) 1/
1972	20,354	1,211,269,225
1973	21,874	1,736,756,401
1974	21,435	2,076,149,450
1975	17,892	1,308,805,819
1976	20,072	915,195,342
1977	22,618	1,771,313,731
1978	24,902	1,306,408,450
1979	28,586	3,709,276,737
1980	28,996	4,529,726,150
1981	23,213	3,960,013,179
1982	20,372	2,892,628,137

1/ Data include leases, agreement of sales assignments; subleases, etc., as well as deeds.

Source: Hawaii State Department of Land and Natural Resources, Annual Report (annual); Bureau of Conveyances, records.

Table 502.-- APPROXIMATE VALUE OF LAND TRANSFERS, BY COUNTIES: 1979 TO 1981

[In dollars. For calendar years. Totals include leases, agreement of sales assignments, subleases, etc., as well as deeds.]

County	1979	1980	1981
State total	2,922,813,108	3,857,161,012	3,200,331,490
Honolulu	2,015,789,173	2,518,584,243	2,078,739,157
Maui	339,399,214	549,819,017	424,993,830
Hawaii	375,149,523	487,446,10	397,740,539
Kauai	192,475,198	301,311,650	298,857,964

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 503.-- AVERAGE SQUARE FOOT COST OF FINISHED RESIDENTIAL LOTS: 1980 AND 1981

Year	Average cost (dollars)
1980	10.59
1981 1/	7.74

1/ The U.S. average in 1981 was $1.11. Among the 50 States and District of Columbia, only D.C. reported a higher average than Hawaii.

Source: Homer Hoyt Institute, Land Review, Vol. 2, No. 3, March 1982, p. 8.

Table 504.-- MORTGAGES, FORECLOSURES, AND AGREEMENTS OF SALE: 1976 TO 1981

Year	Mortgages recorded			Foreclosures 1/ ($1,000)	Mortgage assignments ($1,000)	Agreements of sale ($1,000)
	Number	Total value ($1,000)	Average value (dollars)			
1976 ...	24,799	1,674,255	67,513	676	4,091	357,147
1977 ...	27,799	2,166,606	77,938	8,470	2,696	411,525
1978 ...	31,070	2,504,979	80,624	8,392	3,074	611,732
1979 ...	38,309	3,201,376	83,567	335	3,918	1,133,166
1980 ...	27,551	3,034,349	110,135	767	6,246	1,140,453
1981 ...	23,156	2,285,147	98,685	1,233	3,097	1,041,662

1/ Commercial and residential projects.

Source: Data from Title Guaranty of Hawaii and State Bureau of Conveyances, cited in the Bank of Hawaii, Construction in Hawaii, 1982 (1982), p. 30.

Table 505.-- REAL ESTATE MORTGAGE LOANS OUTSTANDING, BY TYPE OF LENDING INSTITUTION: 1971 TO 1981

[In thousands of dollars. As of December 31.]

Year	All institutions	Banks	Savings, building and loan associations	Trust companies 1/	Industrial loan companies	Insurance companies
1971	2,093,033	496,899	854,183	5,156	63,852	672,944
1972	2,424,166	570,525	1,061,068	2,199	90,733	699,641
1973	2,797,345	662,989	1,231,323	984	194,758	707,292
1974	3,210,216	751,142	1,344,025	593	291,566	822,890
1975	3,564,867	816,412	1,547,871	479	318,305	881,800
1976	3,959,529	883,500	1,841,239	2,307	284,856	947,627
1977	4,495,971	992,773	2,229,623	1,241	292,066	980,268
1978	5,320,761	1,150,080	2,762,269	1,913	330,902	1,075,597
1979	6,323,194	1,399,782	3,256,232	466	406,753	1,259,961
1980 2/ .	7,131,368	1,493,470	3,708,523	77	502,964	1,426,334
1981	(NA)	1,585,846	3,954,169	77	603,720	(NA)

NA Not available.

1/ Excluding mortgage loans held in trust and agency accounts.

2/ Corrected from table 498 in 1981 edition.

Source: Hawaii State Department of Commerce and Consumer Affairs, Bank Examination Division and Insurance Division.

Table 506.-- CHARACTERISTICS OF HOMES INSURED UNDER FHA SECTIONS 203 AND 245: 1981

Subject	Proposed homes		Existing homes	
	Sec. 203	Sec. 245 1/	Sec. 203	Sec. 245 1/
Volume of FHA-insured mortgages:				
Number	56	157	215	131
Amount ($1,000)	3,908	12,542	15,732	10,955
Average:				
Sample size	29	88	88	66
Property value	(S)	$99,745	$111,231	$102,991
Market price of site	(S)	$65,147	$56,226	$52,090
Percent of value	(S)	65.7	50.5	50.4
Improved living area 2/ (square feet)	(S)	1,107	1,077	1,128
Age of structure 3/ (years)	...	...	9.9	7.8
Price of site per square foot	(S)	$8.82	$8.06	$7.34
Lot size (square feet)	(S)	8,393	7,734	8,097
Mortgagor's total annual income 3/	(S)	$31,428	$36,545	$31,250
Monthly cost of heating and utilities	(S)	$66.10	$71.12	$68.23
Sale price per square foot 2/	(S)	$81.26	$81.79	$76.34
Construction cost per square foot	(S)	$52.25	...	...

(S) Sample too small for reliable estimate.

1/ Graduated payment mortgage program.

2/ Data based on 1-story structures.

3/ Median rather than arithmetic mean.

Source: U.S. Department of Housing and Urban Development, FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 203 (annual) and FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 245, Graduated Payment Mortgage Program (annual).

Table 507.-- CHARACTERISTICS OF HOME PURCHASES, FOR OAHU: SECOND QUARTER: 1981

[Based on a sample of conventional mortgage loans made by savings associations.]

Subject	Amount
Borrower characteristics:	
Median age (years)	42
1 or 2 person households (percent)	62.2
Married (percent)	80.6
First-time buyers (percent)	2.0
Median annual income of household (dollars) 1/	60,000
Second income 2/	42.7
Home characteristics:	
Median purchase price (dollars) 3/	108,122
Age: New (percent)	49.0
25 years old or more (percent)	7.1
Median size (square feet)	973
Condominium (percent)	78.6
Median monthly housing expense (dollars)	1,072
Median downpayment (dollars)	25,200
Housing expense exceeding 25 percent of household income (percent)	29.3

1/ The U.S. median was $39,196.

2/ Percent of households with two adults in which income contributed by a second earner accounted for 10 percent or more of total household income.

3/ The U.S. median was $72,000.

Source: United States League of Savings Associations, Homeownership: The American Dream Adrift (1982), pp. 57 and 88.

Table 508.-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: 1971 TO 1981

[As of December 31.]

Facility	State totals			Geographic area: 1981	
				Hawaii County	
	1971	1980	1981	Hilo	Kona
Total 1/	1,796	3,361	3,501	108	76
Elevators	1,508	2,846	2,983	83	73
Under 9 stories	845	1,554	1,634	74	73
Hydro	210	522	581	27	24
Roped	635	1,032	1,053	47	49
9 to 18 stories	472	800	829	9	-
19 to 28 stories	139	299	313	-	-
29 to 38 stories	52	148	161	-	-
38 stories or more	-	45	46	-	-
Escalators and moving walks	118	228	236	6	-
Inclined lifts	-	9	8	3	1
Man lifts	11	10	10	-	-
Dumbwaiters	157	253	259	16	2
Other facilities	2	4	5	-	-
Workmen's hoists 1/	44	11	15	-	-
Buildings with facilities 1/	(NA)	1,566	1,620	65	37

Continued on next page.

Table 508.-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: 1971 TO 1981 -- Con.

Facility	Geographic area: 1981 -- Con.				
	Maui County			Oahu	Kauai County
	Maui	Lanai	Molokai		
Total 1/	292	1	1	2,942	81
Elevators	269	1	-	2,482	75
Under 9 stories	211	1	-	1,208	67
Hydro	95	1	-	398	36
Roped	116	-	-	810	31
9 to 18 stories	53	-	-	759	8
19 to 28 stories	5	-	-	308	-
29 to 38 stories	-	-	-	161	-
38 stories or more	-	-	-	46	-
Escalators and moving walks	1	-	-	229	-
Inclined lifts	2	-	-	2	1
Man lifts	-	-	-	10	-
Dumbwaiters	18	-	1	216	6
Other facilities	2	-	-	3	-
Workmen's hoists 1/	3	-	-	12	-
Buildings with facilities 1/	129	1	1	1,354	33

NA Not available.

1/ Workmen's hoists not included in totals.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 509.-- TALLEST STRUCTURES ON OAHU: JANUARY 1982

Category and name or structure	Address	Year built	Height 1/	
			Stories	Feet
Apartment houses:				
Regency Tower II	98-288 Kaonohi St. ...	1979	43	350
Discovery Bay	1778 Ala Moana	1976	42	350
Regency Tower	2525 Date St.	1974	42	350
Century Center	1750 Kalakaua Ave. ...	1978	41	350
Yacht Harbor Towers	1600 Ala Moana	1972	40	350
Ala Nanala Apt.	990 Ala Nanala	1983	40	350
Honolulu Tower	60 No. Beretania St. .	1983	40	350
Hotels:				
Ala Moana Hotel 2/	410 Atkinson Drive ...	1970	38	396
Ala Wai Sunset	445 Seaside Ave.	1979	44	350
Pacific Beach Hotel.......	155 Liliuokalani Ave..	1979	43	350
Waikiki Ala Wai Waterfront	444 Niu St.	1979	43	350
Waikiki Lodge II	343 Hobron Lane	1979	43	350
Hyatt Regency Hotel	2424 Kalakaua Ave. ...	1976	39	350
Tapa Tower	2005 Kalia Rd.	1982	35	350
Office buildings:				
Pacific Trade Center	1058 Alakea St.	1972	30	350
Grosvenor Center	735 Bishop St.	1979	30	350
Ala Moana Bldg.	1441 Kapiolani Blvd. .	1960	25	300
Aloha Tower	Pier 9, foot of Fort Street	1926	10	184
Towers:				
VLF Antenna 3/	Lualualei	1972	...	1,503
KGMB-TV	1534 Kapiolani Blvd. .	c. 1966	...	436
Dole water tower	Iwilei	1927	...	199
Other structures:				
Tripler Army Hospital	Moanalua	1948	14	189
Central Union Church	1660 So. Beretania St.	1924	...	160

1/ For structures authorized since adoption of 350-feet height limit in 1969, data may exclude the elevator machine room.

2/ Measured to the top of the elevator machine room.

3/ VLF Antenna of the Radio Transmitting Facility, Lualualei, of the Naval Communications Station, Honolulu. Two towers, each 1,503 feet, completed in August 1972.

Source: City and County of Honolulu, Building Department, records; Robert C. Schmitt, "Some Construction and Housing Firsts in Hawaii," The Hawaiian Journal of History, Vol. 15 (1981), pp. 100-112.

Table 510.-- TALLEST STRUCTURES ON THE NEIGHBOR ISLANDS: JANUARY 1982

Kind of structure, island, and name	Address	Year completed	Height	
			Stories	Feet
APARTMENT HOUSE				
Hawaii:				
Bayshore Towers	Hilo	1970	15	135
Kauai:				
Waikomo Villas	Koloa	(UC)	4	52
Kapaa Shores	Kapaa	1974	4	48
Poipu Shores	Koloa	1975	4	48
Maui:				
Mana Kai Apartment	Kihei	1973	8	92
HOTEL				
Hawaii:				
Naniloa Surf	Hilo	1966	12	131
Kauai:				
Kauai Surf Hotel	Lihue	1959	10	107
Sheraton Kauai Hotel	Koloa	1981	4	48
Maui:				
Royal Lahaina Hotel	Kaanapali	1970	12	132
The Whaler Hotel	Kaanapali	1975	12	110
Hyatt Regency Hotel	Kaanapali	1980	9	110
OFFICE BUILDING				
Hawaii:				
Hawaiian Telephone	Hilo	1970	4	62
Kauai:				
State Building	Lihue	1968	4	45
Maui:				
Kalana O Maui (County Bldg.)	Wailuku	1972	9	140
Wailuku Sugar Co.	Wailuku	1906	5	100

Continued on next page.

Table 510.-- TALLEST STRUCTURES ON THE NEIGHBOR ISLANDS: JANUARY 1982 -- Con.

Kind of structure, island, and name	Address	Year completed	Height	
			Stories	Feet
TOWER				
Hawaii:				
Coast Guard Loran Station	Upolu Point ..	1958	...	625
Kauai:				
Communication Engineers Tower .	Mana	1964	...	400
Maui:				
KMVI Radio Tower	Wailuku	1947	...	455
KNUI Radio Tower	Kihei	1969	...	280
Molokai:				
KAIM Radio Tower	Kalua Koi	1981	...	410
OTHER STRUCTURES				
Hawaii:				
Puna Sugar Power Plant	Keaau	1971	6	(NA)
Kauai:				
Lihue Plantation Co. thermal power plant	Lihue	1981	...	114
Wilcox Memorial Hospital	Lihue	1974	4	40
McBryde Sugar Co.	Koloa	1974	3	40
Maui:				
Pioneer Mill Co. smoke stack ..	Lahaina	1928	...	220
HC&S Co. smoke stack	Puunene	1900	...	107

NA Not available.

UC Under construction.

Source: Hawaii County Department of Research and Development, January 22, 1982; Kauai County Department of Public Works, March 29, 1982; Maui County Department of Public Works, March 31, 1982.

Section 22

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning.

The number of manufacturing establishments in Hawaii increased from 697 in 1967 to 773 in 1972 and 949 in 1977. The value added by manufacture rose from $326 million in 1967 to $410 million in 1972, $786 million in 1977, and $783 million in 1978. Three-fourths of all manufacturing activity in the State in 1977 was on Oahu. Food processing -- mostly sugar and pineapple -- accounted for more than 44 percent of the value added by manufacture in that year. Between 1971 and 1981, the general excise and use tax base increased 118 percent for sugar processing, 38 percent for pineapple canning, and 121 percent for all other manufacturing. There were three pineapple canneries and 15 sugar mills in Hawaii in mid-1981. The production of canned pineapple fruit and juices in 1981 amounted to 18 million actual cases, well below the levels of earlier years. Sugar production in 1981 amounted to 1.05 million short tons, about the same level as in other recent years. The value of sugar production (including commercial molasses) was $328 million, well below the record set in 1974. Important manufactures other than food processing include apparel ($45.9 million in value added in 1978), printing and publishing ($97.9 million), and transportation equipment ($28.4 million).

Sources for data on this subject include the United States Census of Manufactures, most recently conducted for 1977, the now-discontinued Annual Survey of Manufactures, and publications of the Hawaii State Department of Agriculture and Department of Taxation, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. Historical Statistics of Hawaii, Section 16, reviews the figures for earlier years. Statistics for the nation as a whole appear in Section 29 of the Statistical Abstract of the United States: 1981.

Table 511.--MANUFACTURES: 1967 TO 1978

[Data from the Annual Survey of Manufactures. State-level tabulations from this source were discontinued following the release of 1978 statistics.]

Year	All employees		Production workers		
	Number (1,000)	Payroll (millions of dollars)	Number (1,000)	Hours (millions)	Wages (millions of dollars)
1967 ..	25.4	139.6	19.0	35.9	86.9
1968 ..	23.2	134.0	17.4	32.2	83.3
1969 ..	23.9	145.3	17.9	33.2	90.8
1970 ..	24.8	168.7	18.1	35.3	102.8
1971 ..	24.4	176.6	17.5	34.3	105.7
1972 ..	24.8	191.1	17.7	33.1	113.7
1973 ..	24.3	195.5	17.5	31.9	117.9
1974 ..	22.5	210.4	15.8	28.8	116.6
1975 ..	23.7	236.7	16.9	30.6	133.0
1976 ..	24.2	266.4	17.1	30.8	153.9
1977 ..	25.0	276.8	17.4	31.3	160.5
1978 ..	23.7	285.2	17.4	30.9	173.0

Year	Number of establishments	Value added by manufacture (millions of dollars)	Cost of materials 1/ (millions of dollars)	Value of shipments 1/ (millions of dollars)	New capital expenditures (millions of dollars)
1967 ..	697	326.2	399.6	723.4	26.0
1968 ..	(NA)	353.9	381.9	737.1	15.6
1969 ..	(NA)	351.0	408.3	758.1	19.8
1970 ..	(NA)	408.6	451.1	856.9	40.5
1971 ..	(NA)	435.0	465.9	899.9	28.0
1972 ..	773	410.0	548.3	955.6	46.7
1973 ..	(NA)	496.1	592.9	1,086.4	36.6
1974 ..	(NA)	913.8	952.9	1,848.2	50.2
1975 ..	(NA)	685.4	1,116.2	1,800.3	51.5
1976 ..	(NA)	700.3	1,156.8	1,854.8	55.6
1977 ..	949	785.5	1,176.1	1,974.0	44.4
1978 ..	(NA)	782.9	1,284.8	2,063.1	46.0

NA Not available.

1/ Aggregate cost of materials and value of shipments figures for manufacturing industries include extensive duplication, since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, *Statistics for States, Standard Metropolitan Statistical Area, Large Industrial Counties, and Selected Cities*, 1978 Annual Survey of Manufactures, M78(AS)-6 (September 1981), p. 101.

Table 512.-- MANUFACTURES, BY GEOGRAPHIC AREAS: 1977

Geographic area	All establishments 1/		All employees 1/		Value added by manufacture (million dollars)	Value of shipments 2/ (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)		
State total	949	231	25.0	276.8	785.5	1,974.0
COUNTIES						
Honolulu	759	191	19.6	215.2	585.8	1,581.5
Others	190	40	5.4	61.6	199.7	392.5
Hawaii	99	16	2.4	30.4	83.1	157.7
Kauai	26	6	0.7	8.2	25.4	70.3
Maui	64	18	2.3	22.9	91.1	164.4
URBAN PLACES 3/						
Hilo	61	8	0.7	8.9	13.7	32.4
Honolulu	657	159	17.1	183.9	416.8	1,106.4
Kahului	17	6	(D)	(D)	(D)	(D)
Wailuku	23	6	0.5	4.8	8.8	17.3
Waipahu	13	5	0.7	7.0	7.9	33.2

(D) Withheld to avoid disclosing operations of individual companies.

1/ Including central administrative offices and auxiliaries.

2/ Aggregate value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others.

3/ With 450 manufacturing employees or more.

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Geographic Area Series, Hawaii, MC77-A-12 (October 1980), p. 12-4.

Table 513.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP: 1978

SIC code	Industry	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)
	All industries	23.7	285.2	17.4	30.9	173.0
20	Food and kindred products .	10.8	120.7	8.3	14.9	78.5
2033	Canned fruits and veg. ..	3.5	28.9	3.1	5.1	23.3
206	Sugar, confect. products	3.7	46.9	2.8	6.0	33.2
2061	Raw cane sugar	3.2	41.6	2.3	5.2	29.8
23	Apparel, textile products .	3.3	24.4	2.9	5.2	18.4
27	Printing and publishing ...	2.5	37.1	1.3	2.3	18.8
28	Chemicals, allied products	.4	5.2	.2	.3	2.1
34	Fabricated metal products .	.4	5.8	.2	.6	3.7
35	Machinery, except electric	.3	2.7	.2	.6	1.8
37	Transportation equipment ..	.7	13.3	.7	.6	11.1
--	Administrative, auxiliary .	.6	16.2	-	-	

SIC code	Industry	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
	All industries	782.9	1,284.8	2,063.1	46.0	183.9
20	Food and kindred products .	371.2	495.3	865.3	27.7	77.8
2033	Canned fruits and veg. ..	81.3	101.6	182.9	2.9	34.4
206	Sugar, confect. products	176.7	181.0	357.8	17.8	21.4
2061	Raw cane sugar	129.6	155.1	284.7	17.1	12.1
23	Apparel, textile products .	45.9	33.1	78.8	.7	13.8
27	Printing and publishing ...	97.9	37.8	135.1	2.4	6.5
28	Chemicals, allied products	21.7	32.8	52.0	1.6	10.1
34	Fabricated metal products .	(Z)	40.3	41.1	.3	10.9
35	Machinery, except electric	3.6	3.4	6.6	.7	1.6
37	Transportation equipment ..	28.4	20.7	49.0	(D)	2.0
--	Administrative, auxiliary .	-	-	-	-	-

D Withheld to avoid disclosing information on individual companies.
Z Less than half the unit of measurement shown.
Source: U.S. Bureau of the Census, Statistics for States, Standard Metropolitan Statistical Areas, Large Industrial Counties, and Selected Cities, 1978 Annual Survey of Manufactures, M78(AS)-6 (September 1981), p. 102.

Table 514.-- GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING, AND MANUFACTURING: 1971 TO 1981

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems.]

Year reported 1/	Total	Sugar processing	Pineapple canning	Manufacturing 2/
1971	599,686	190,209	124,548	284,929
1972	638,059	205,962	124,265	307,833
1973	692,715	213,095	123,597	356,023
1974	934,613	454,660	103,686	376,268
1975	1,166,923	605,521	131,655	429,748
1976	783,751	275,078	95,488	413,186
1977 3/ ...	862,412	284,000	111,942	466,470
1978 3/ ...	917,163	291,000	131,665	494,498
1979	1,035,159	305,738	164,200	565,221
1980 4/ ...	1,349,149	527,379	195,766	626,004
1981	1,218,516	415,442	172,342	630,732

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January and hence these annual totals generally refer to an "income year" ended November 30.

2/ Excludes sugar processing, pineapple canning, and petroleum refining.

3/ Partly estimated.

4/ Revised from 1981 edition, table 511.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 515.-- PINEAPPLE COMPANIES AND CANNERIES AND SUGAR COMPANIES AND MILLS: 1971 TO 1981

Year	Pineapple 1/		Sugar 2/	
	Companies	Canneries	Companies 3/	Mills
1971	4	4	23	26
1972	4	4	21	23
1973	3	3	19	21
1974	3	3	17	20
1975	3	3	16	17
1976	3	3	16	17
1977	3	3	16	16
1978	3	3	15	14
1979	3	3	15	14
1980	3	3	15	14
1981	3	3	15	14
ISLANDS: 1981				
Hawaii	-	-	5	5
Maui	1	1	3	3
Oahu	2	2	2	2
Kauai	-	-	5	4

1/ As of end of canning season.

2/ As of December 31.

3/ Excludes United Cane Planters' Cooperative, which consists of small independent growers.

Source: The Pineapple Growers Association of Hawaii, records; Hawaiian Sugar Planters' Association, records.

Table 516.-- EMPLOYMENT AND EARNINGS IN THE PINEAPPLE INDUSTRY: 1971 TO 1981

[Includes field and cannery employment and earnings.]

Year	Full-time equivalent employment	Total wages and salaries (dollars)	Earnings per full-time equivalent employee (dollars)
1971 ...	7,403	51,194,731	6,915
1972 ...	7,110	48,376,978	6,804
1973 ...	5,759	42,613,741	7,400
1974 ...	4,894	37,764,230	7,716
1975 ...	4,915	42,137,633	8,573
1976 ...	4,657	44,918,405	9,645
1977 ...	4,924	52,413,689	10,645
1978 ...	4,953	55,397,760	11,185
1979 ...	4,979	61,751,124	12,402
1980 ...	4,861	66,737,788	13,729
1981 ...	4,675	70,207,745	15,018

Source: Hawaii Employers Council, unpublished estimates.

Table 517.-- INDUSTRIAL PARKS AND AREAS, BY ISLANDS: 1980

Island	Number of industrial parks and areas	Acres	
		Total	Developed
State total	35	3,218.9	3,065.7
Hawaii	6	633.3	633.3
Maui	5	193.5	169.7
Lanai	-	-	-
Molokai	-	-	-
Oahu	21	2,330.1	2,242.7
Kauai	3	62.0	20.0
Niihau	-	-	-

Source: Hawaii State Department of Planning and Economic Development, Industrial Parks and Areas in Hawaii 1980.

Table 518.-- HAWAIIAN PINEAPPLE PRODUCTION: 1970-71 TO 1981

[In thousands. Hawaiian pack only; excludes overseas production by Hawaiian companies.]

Year 1/	Canned fruit		Canned juice		Frozen concentrate	
	Actual cases	Standard cases 2/	Actual cases	Standard cases 3/	Equivalent 6/10 cases	Standard cases 3/
1970-1971 ..	17,718	12,028	10,590	8,100	1,016	929
1971-1972 ..	17,961	12,537	11,004	8,400	789	722
1972-1973 ..	15,891	11,108	9,282	7,400	633	580
1973-1974 ..	14,042	9,550	8,470	6,600	886	810
1974-1975 ..	11,584	8,110	5,643	4,400	438	400
1975-1976 ..	12,142	8,200	6,173	4,800	471	520
1976-1977 ..	12,160	8,270	7,295	5,600	346	320
1977-1978 ..	12,482	8,490	8,403	5,750	294	270
1978-1979 ..	11,142	7,620	7,386	5,760	290	265
1979	10,930	7,470	7,699	6,010	308	280
1980	9,918	6,940	8,114	6,410	237	215
1981	9,759	6,830	7,997	6,320	219	200

1/ Pack year ended May 31 through 1978-1979 and calendar years 1979 and 1980.

2/ 24 #2 1/2 can, 45-lb. cases.

3/ 24 #2 1/2 can, 42 1/2-lb. cases.

Source: The Pineapple Growers Association of Hawaii, Pineapple Fact Book/Hawaii 1973 (January 1973), p. 18, and records; Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual), and records.

Table 519.-- SUGAR AND MOLASSES PRODUCTION: 1971 TO 1981

Year	Cane land (acres)		Cane used for sugar (short tons)	Sugar produced (short tons)		Molasses produced (short tons)
	Total area	Harvested area		96° raw value	Equivalent refined	
1971 ...	232,278	115,810	10,685,019	1,229,976	1,149,510	330,227
1972 ...	229,611	108,456	9,929,068	1,118,883	1,045,708	307,543
1973 ...	226,580	108,189	9,645,452	1,128,529	1,054,723	301,500
1974 ...	224,227	95,826	9,082,684	1,040,742	972,677	293,380
1975 ...	221,426	105,125	9,485,299	1,107,199	1,034,788	301,335
1976 ...	221,551	99,926	9,172,649	1,050,457	981,757	275,352
1977 ...	220,729	96,770	8,994,388	1,033,739	966,132	284,349
1978 ...	220,697	99,355	9,263,190	1,028,933	961,641	310,238
1979 ...	218,773	100,610	9,632,135	1,059,737	990,430	325,831
1980 ...	217,718	97,358	9,214,136	1,023,232	956,313	315,088
1981 ...	216,099	97,573	8,831,477	1,047,541	979,031	311,719

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual 1982, pp. 10-11.

Table 520.-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY EMPLOYMENT AND EARNINGS: 1971 TO 1981

Year	Average raw sugar price 1/ (cents per lb.)	Hourly-rated employees		Industry wide strikes (weeks)	Average daily earnings 2/ (dollars)	
		Average number 3/	Total man-days		Wages	Employee benefits
1971 ...	8.52	8,610	2,077,011	-	26.08	10.27
1972 ...	9.10	8,127	1,934,563	-	29.09	11.23
1973 ...	10.30	7,900	1,897,369	-	30.86	12.48
1974 ...	29.43	7,700	1,744,346	6	34.41	15.81
1975 ...	22.49	7,800	1,937,973	-	37.34	15.66
1976 ...	13.31	7,500	1,854,272	-	43.12	17.28
1977 ...	11.11	7,200	1,660,298	3	43.92	19.97
1978 ...	13.74	7,200	1,771,530	-	47.06	21.28
1979 ...	15.20	7,065	1,762,838	-	50.49	22.21
1980 ...	30.18	7,076	1,793,237	-	56.72	24.68
1981 ...	19.74	7,282	1,806,020	-	61.51	27.71

1/ Average New York raw sugar price computed over all the days of the year (Hawaiian basis). The New York spot price was suspended from November 2, 1977 to August 20, 1979; figures for that period are based on Clearing Association settlement prices.

2/ For non-supervisory employees.

3/ Adults only.

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual (annual), as revised.

Table 521.-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1971 TO 1981

[In millions of dollars. Calendar year data unless otherwise specified.]

Year	Pineapple		Sugar		
			Value of production 3/		Government sugar support payments
	Canned fruit and juices 1/	Fresh market sales 2/	Raw sugar 96°	Commercial molasses	
1971 ..	137.7	3.7	196.3	6.7	10.7
1972 ..	140.5	4.9	176.6	8.1	9.7
1973 ..	135.0	7.4	203.8	18.4	9.5
1974 ..	118.2	8.9	659.2	17.4	8.6
1975 ..	126.6	10.1	354.6	11.5	-
1976 ..	130.0	14.5	245.5	11.5	-
1977 ..	140.0	21.6	219.1	7.7	48.7
1978 ..	133.4	29.4	269.5	15.7	8.1
1979 ..	176.3	30.1	322.2	23.5	-
1980 ..	192.2	34.3	566.4	27.7	-
1981 ..	172.0	45.6	314.2	13.7	-

1/ Value of canned fruit and juices and by products shipped out-of-State and sold within State. Prior to 1979, data are for pack years beginning June 1.

2/ Value FAS shipping point for outshipments, delivered wholesalers local sales.

3/ Beginning with 1972, point of delivery changed from refinery to mill.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual) and records.

Section 23

DOMESTIC TRADE AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement services.

These activities have undergone rapid growth in recent decades, in part because of higher prices. Retail sales increased from $1.1 billion in 1967 to $1.9 billion in 1972 and $3.3 billion in 1977. Wholesale sales rose from $1.0 billion in 1967 to $2.6 billion in 1977. Hotels, amusements, and other services reported receipts of $1.3 billion in 1977, compared with $310 million in 1967. General excise and use tax base data for more recent years indicate continued increases; between 1977 and 1981, the retailing tax base rose 59 percent, the wholesaling base by 77 percent, and the base for services by 65 percent. Major retail concentrations include Ala Moana Center, Waikiki, Pearlridge Center, and downtown Honolulu. The 19 department stores on Oahu reported sales of $425 million in 1980. In addition to civilian retail outlets, there are 140 commissaries, exchanges, clubs, and food services maintained by the armed forces; these facilities had sales of $359 million in 1981.

Growth has been especially rapid for hotels. The number of units in the State rose from 6,800 in 1959 to 27,000 in mid-1970 and 58,000 in February 1982. There were 417 hotels, motels and apartment-hotels in the State on the latter date, including 270 on the Neighbor Islands. A fourth of all transient units were in condominium structures. Occupancy rates averaged 73.9 percent in Waikiki and 59.1 percent on the Neighbor Islands during 1981. The average daily room rate was $49.73 in 1981. The hotel payroll in 1981 totaled $264 million, compared with $78 million ten years earlier.

Fifty-four feature motion pictures and television specials and series were filmed in Hawaii in 1981, accounting for local expenditures of $17 million.

The major source of these data is the United State Census of Business, most recently conducted at the end of 1977. Statistics on the retailing, wholesaling, and services tax bases are available from the Hawaii State Department of Taxation. Data on hotel room counts, occupancy and other characteristics are published by the Hawaii Visitors Bureau and the firm of Pannell Kerr Forster. The Hawaii Film Office in the Department of Planning and Economic Development compiles data on motion picture and television production. A summary of figures on trade and services in earlier years appears in Historical Statistics of Hawaii, Section 20. The Statistical Abstract of the United States: 1981, Section 30, presents similar data for other states and the nation as a whole.

Table 522.-- RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES: 1963 TO 1977

Year	Retail trade		Wholesale trade		Selected services	
	Establishments	Sales ($1,000)	Establishments	Sales ($1,000)	Establishments	Receipts ($1,000)
1963	4,578	751,411	974	735,205	3,431	163,094
1967	5,212	1,083,458	1,030	1,013,813	4,057	310,290
1972 (1967 def.)	6,416	1,881,516	1,311	1,511,398	5,570	583,289
1972 (1972 def.)	6,392	1,864,985	1,336	1,538,429	6,348	683,201
1972 (1977 def.)	5,880	1,859,929	1,337	1,561,654	6,348	664,857
1977	7,388	3,294,118	1,569	2,571,489	8,023	1,276,163

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 513, 524, and 526. U.S. Bureau of the Census 1977 Census of Retail Trade, RC77-A-12, table 2; 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 2; and 1977 Census of Service Industries, SC77-A-12, table 2.

Table 523.-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES: 1971 TO 1981

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems.]

Year reported 1/	Retailing	Services 2/	Theater, amusement, broadcasting, etc.	Wholesaling
1971	2,030,170	523,824	48,503	918,425
1972	2,213,704	578,260	53,108	1,002,214
1973	2,560,799	697,419	60,079	1,220,818
1974	2,959,201	783,771	66,557	1,374,819
1975	3,382,804	919,912	74,561	1,527,057
1976	3,724,487	978,091	82,134	1,721,874
1977 3/ ...	4,222,169	1,095,066	92,827	1,989,981
1978 3/ ...	4,774,076	1,222,996	104,085	2,158,707
1979	5,519,889	1,412,195	109,143	2,800,951
1980 4/ ...	6,109,628	1,743,003	121,562	2,986,877
1981	6,700,750	1,809,913	129,501	3,528,763

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes both business and professional services but excludes hotels, theater, amusement, broadcasting, and intermediary services.

3/ Partly estimated.

4/ Revised.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 524.-- CHARACTERISTICS OF RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICE INDUSTRIES: 1977

Subject	Retail trade	Wholesale trade	Selected services 1/
All establishments:			
Number	7,388	1,569	8,023
Sales ($1,000)	3,294,118	2,571,489	...
Receipts ($1,000)	...	...	1,276,163
Inventories, Dec. 31 ($1,000)	...	248,195	...
Operating expenses ($1,000)	...	375,803	...
Unincorporated businesses (number):			
Sole proprietorships	3,120	...	5,540
Partnerships	516	...	456
Establishments with payroll:			
Number	5,273	...	3,306
Sales ($1,000)	3,222,715	...	...
Receipts ($1,000)	...	...	1,216,214
Payroll ($1,000):			
Entire year	460,322	177,556	389,691
First quarter	111,143	43,517	94,434
Paid employees, week incl. March 12	72,098	14,695	49,438

1/ Includes hotels; personal services; business services; automotive repair, services, and garages; miscellaneous repair services; amusement and recreation services, including motion pictures; dental laboratories; legal services; and engineering, architectural, and surveying services.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-A-12, table 1; 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 1, and 1977 Census of Service Industries, SC77-A-12, table 1.

Table 525.-- RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICE INDUSTRIES, BY COUNTIES: 1977

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Retail trade:					
Number of establishments	7,388	5,367	846	433	742
Sales ($1,000)	3,294,118	2,604,207	275,938	126,399	287,574
Wholesale trade:					
Number of establishments	1,569	1,277	148	49	95
Sales ($1,000)	2,571,489	2,166,760	185,159	58,848	160,722
Selected service industries: 1/					
Number of establishments	8,023	6,214	797	340	672
Receipts ($1,000)	1,276,163	963,452	133,601	56,421	122,689

1/ Includes hotels, motels, personal services, business services, automotive repair, services, and garages, miscellaneous repair services, amusement and recreation services (including motion pictures), dental laboratories, legal services, and engineering, architectural, and surveying services.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-A-12, table 7; 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 7; 1977 Census of Service Industries, SC77-A-12, table 7.

Table 526.-- RETAIL TRADE, BY KIND OF BUSINESS: 1977

Kind of business	Number of establishments	Sales ($1,000)
Retail trade	7,388	3,294,118
Building materials, hardware, garden supply, and mobile home dealers ...	194	74,462
General merchandise group stores	259	631,505
Food stores	876	651,259
Automotive dealers	291	457,429
Gasoline service stations	415	176,079
Apparel and accessory stores	733	204,037
Furniture, home furnishings, and equipment stores	444	102,188
Eating and drinking places	1,657	484,098
Drug and proprietary stores	115	174,155
Miscellaneous retail stores	2,404	338,906

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC 77-A-12, table 1.

Table 527.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS, BY BROAD GEOGRAPHIC AREAS: 1977

[Excludes establishments without payroll.]

Merchandise line	Number of establishments		Sales of specified merchandise line ($1,000)	
	Oahu	Rest of state	Oahu	Rest of state
Total 1/	3,815	1,458	2,553,848	668,867
Groceries and other foods	657	337	448,827	159,004
Meals and snacks	1,138	363	333,143	74,666
Alcoholic drinks	501	156	75,702	13,947
Packaged alcoholic beverages	317	204	76,243	21,613
Cigars, cigarettes, and tobacco	366	230	29,565	6,004
Drugs	227	169	38,918	9,436
Health and beauty aids	329	247	60,139	11,146
Men's, boys' clothing exc. footwear	449	283	107,810	22,868
Women's, girls' wear exc. footwear	513	310	176,151	36,512
Footwear exc. infants and toddlers	299	176	51,503	7,601
Curtains, draperies, and dry goods	205	123	39,684	10,065
Major household appliances	114	56	24,471	9,284
Small electric appliances	153	89	11,400	3,587
Televisions	94	58	9,326	3,651
Audio equip., musical instr., supplies	176	89	27,308	4,658
Furniture and sleep equipment	139	61	34,250	10,234
Floor coverings	114	58	11,431	3,509
Kitchenware and home furnishings	387	274	50,500	13,232
Jewelry	561	310	123,294	19,823
Optical goods	97	55	7,588	525
Sporting goods	160	89	41,086	9,499
Hardware and tools	126	117	19,796	11,647
Lawn and garden equip., supplies	216	120	23,764	7,971
Lumber and building materials	110	61	34,314	17,029
Cars, trucks, powered vehicles	66	28	269,917	67,976
Automotive fuels and lubricants	339	151	113,529	37,066
Auto tires, batteries, accessories	429	171	65,794	21,010
All other merchandise	775	433	169,278	39,123
Nonmerchandise receipts	674	275	78,812	15,894
Miscellaneous merchandise	(X)	(X)	305	287

X Not applicable.

1/ Because some establishments carry more than one merchandise line, the number of establishments for each line will not add to the indicated totals.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade: Merchandise Line Sales, Hawaii (unpublished tabulations filed in the Hawaii Department of Planning and Economic Development Library).

Table 528.-- FLOOR SPACE FOR SELECTED KINDS OF RETAIL BUSINESS: 1977

[Data are shown only for establishments with payroll.]

Kind of business	Number of establishments	Sales ($1,000)	Under-roof floor space (1,000 sq. ft.)		Sales per square foot of selling space (dollars)	Selling space as percent of total floor space
			Total	Selling		
Hardware stores	33	11,604	177	126	92	71.2
Department stores	23	375,943	2,766	1,762	213	63.7
Variety stores	43	63,776	964	652	98	67.6
Grocery stores	396	584,218	2,687	1,857	315	69.1
Apparel and accessory stores	599	200,547	1,326	985	204	74.3
Drug and proprietary stores	103	173,509	833	592	293	71.1
Sporting goods stores ..	103	27,446	198	152	181	76.8

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-S-2, Miscellaneous Subjects (October 1980), table 29.

Table 529.-- DEPARTMENT STORES, FOR THE STATE, OAHU, AND HONOLULU: 1948 TO 1980

Year	Number of stores, Dec.			Sales 1/ ($1,000)		
	State total	Oahu	Honolulu 2/	State total	Oahu	Honolulu 2/
1948	2	2	2	(D)	(D)	(D)
1954	4	4	2	(D)	(D)	(D)
1958	7	7	5	30,629	30,629	(D)
1963	13	13	7	71,776	71,776	63,021
1967	15	15	10	131,843	131,843	122,260
1972	19	15	10	215,428	205,619	167,758
1977	23	19	12	375,943	354,087	251,219
1978 3/ ..	...	19	...	...	373,774	...
1979 3/ ..	...	19	...	...	403,663	...
1980 3/ ..	...	19	...	...	424,525	...

D Withheld to avoid disclosing data for individual companies.

1/ Data after 1972 exclude sales taxes and finance charges.

2/ Area southwest of the crest of the Koolau Mts., between Red Hill and Makapuu Pt.

3/ Survey data, limited to Oahu. Annual statistics were discontinued after 1980.

Source: U.S. Bureau of the Census, U.S. Census of Business: 1948, Bull. No. 1-RWS-51; U.S. Census of Business: 1954, Bull. R-1-52 and CBD-47; U.S. Census of Business: 1958, BC58-RA52 and BC58-CBD36; U.S. Census of Business: 1963, BC63-RA13 and BC63-MRC-43; U.S. Census of Business, 1967, BC67-RA13 and BC67-MRC-12; Census of Retail Trade, 1972, RC72-A-12 and RC72-C-12; 1977 Census of Retail Trade, RC77-A-12 and RC77-C-12; Current Business Reports, Monthly Department Store Sales in Selected Areas, BD-80-1, January 1980, and BD-80-12, December 1980.

Table 530.-- EATING PLACES AND DRINKING PLACES: 1977

[Data are shown only for establishments with payroll.]

Subject	Restaurants and lunchrooms	Cafeterias	Refreshment places	Drinking places
All establishments:				
Number of establishments	633	28	448	290
Seating capacity	69,956	(NT)	18,587	22,178
Sales ($1,000)	249,946	5,646	138,075	50,453
With waiter or waitress service:				
Number of establishments	633	-	63	267
Sales ($1,000)	249,946	-	12,501	47,339
Establishments by average cost per meal:				
Under $2.00	63	2	252	...
$2.00 to $4.99	388	26	191	...
$5.00 to $9.99	135	-	5	...
$10.00 or more	47	-	-	...
Establishments by primary type of food service:				
Tables/booths with waiter/waitress service	627	-	46	...
Counters with seats and/or standup	-	2	95	...
Self-service with inside seating	-	24	139	...
Other	6	2	168	...
Franchise holders:				
Number of establishments	30	(NT)	117	(NT)
Sales ($1,000)	17,045	(NT)	57,461	(NT)

NT Not tabulated.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-S-2, Miscellaneous Subjects (October 1980), tables 8, 10, 12, 14, and 15.

Table 531.-- CHARACTERISTICS OF MAJOR SHOPPING CENTERS: 1981

[Includes all centers on Oahu with more than 200,000 square feet of building area and all centers on other islands with more than 100,000 square feet of building area.]

Island and name of center	Location	Year opened	Site area (acres)	Building area (1,000 square feet)	Parking spaces	Number of stores
Oahu:						
Ala Moana Center ...	Honolulu	1958	50	1,500	7,800	155
Kahala Mall	Honolulu	1954	22	370	1,500	60
Pearl City S. C. ...	Pearl City	1965	15	249	900	36
Pearlridge Center ..	Aiea	1972	59	1,200	4,950	140
Royal Hawaiian S. C.	Honolulu	1981	6	280	600	140
Waikiki Shopping Plaza	Honolulu	1977	1.1	300	300	50
Windward Mall	Kaneohe	1982	32	540	2,350	103
Hawaii:						
Kaiko'o Mall S. C. .	Hilo	1970	14	220	950	33
Maui:						
Kaahumanu Center ...	Kahului	1973	25	276	1,400	50
Kahului S. C.	Kahului	1951	17	104	1,000	30
Maui Mall	Kahului	1971	27	203	1,250	40
Kauai:						
Lihue S. C.	Lihue	1966	9	142	551	24

Source: The Chamber of Commerce of Hawaii, Shopping Centers in Hawaii (July 1981).

Table 532.-- ALA MOANA CENTER STATISTICAL SUMMARY: 1976 TO 1981

[All figures except sales are as of December 31.]

Year	Number of stores	Retail floor space (1,000 sq. ft.)	Annual sales ($1,000)	Parking spaces	Land area (acres)
1976	155	1,383.1	261,160	7,800	50
1977	155	1,433.8	285,752	7,800	50
1978	155	1,434.7	325,564	7,800	50
1979	155	1,435.4	351,504	7,800	50
1980	155	1,501.8	(NA)	7,800	50
1981	155	1,501.8	(NA)	7,800	50

NA Not available.
Source: Ala Moana Center, management office, records.

Table 533.-- SHOPPING CENTERS: 1975 TO 1980

Year (Dec. 31)	Number of stores			Gross leasable area (1,000 square feet)		
	State total	Oahu	Other islands	State total	Oahu	Other islands
1975	2,033	1,446	587	8,287	6,620	1,667
1976	2,215	1,593	622	8,723	7,002	1,720
1977	2,374	1,719	655	9,222	7,422	1,800
1978	2,635	1,729	906	9,602	7,492	2,110
1979	2,734	1,818	916	10,002	7,806	2,196
1980	2,755	1,839	916	10,149	7,953	2,196

Source: Bank of Hawaii, Hawaii 79 (August 1979), p. 33; Hawaii 81 (August 1981), p. 30; and records.

Table 534.-- CHARACTERISTICS OF MAJOR RETAILERS: 1976 TO 1980

Name of company	Number of stores, 1980	Number of employees, 1980	Sales ($1,000)		
			1980	1978	1976
Liberty House, Inc.	42	(NA)	156,200	127,576	99,651
Foodland Super Market, Inc.	27	1,200	153,100	(NA)	93,111
Duty Free Shoppers, Inc. ..	2	1,400	152,000	137,000	108,160
Longs Drug Stores, Inc. ...	13	900	120,000	105,020	86,479
Sears, Roebuck & Co.	7	2,000	112,500	105,849	84,168
Times Super Market, Ltd. ..	13	600	101,100	79,119	63,645
Safeway Stores, Inc.	9	500	86,500	(NA)	54,635
Servco Pacific, Inc. 1/ ...	12	(NA)	85,300	87,731	65,747
Star Markets, Ltd.	8	450	80,100	62,621	50,964
J. C. Penney Co., Ltd.	4	1,200	76,000	51,677	46,122

NA Not available.

1/ Retail only.

Source: Hawaii Business, Vol. 27, No. 6 (December 1981), p. 27, and records.

Table 535.-- ANNUAL SALES OF RETAIL FACILITIES OPERATED BY THE ARMED FORCES: 1980 AND 1981

Type of facility	Locations		Annual sales ($1,000)	
	1980	1981	1980	1981
Total	130	140	316,985	359,291
Commissaries	7	7	98,237	107,236
Exchanges	23	23	166,564	191,181
Clubs	31	35	19,367	14,735
Food service	43	47	15,607	26,080
Miscellaneous	26	28	17,210	20,058

Source: Hawaii State Department of Planning and Economic Development, Retail Sales by the Armed Forces, 1981 (Statistical Report 153, April 1, 1982), table 2.

Table 536.-- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1977

Type of operation and kind of business	Number of establishments	Sales ($1,000)
Wholesale trade	1,569	2,571,489
Type of operation:		
Merchant wholesalers	1,261	1,430,527
Manufacturers' sales branches and offices	166	902,959
Agents, brokers, and commission merchants	142	238,003
Kind of business:		
Motor vehicles and automotive parts and supplies	93	121,496
Furniture and home furnishings	53	45,388
Lumber and other construction materials	80	122,909
Sporting, recreational, photo, and hobby goods, toys and supplies	42	40,235
Metals and minerals, except petroleum	16	22,006
Electrical goods	100	182,752
Hardware, and plumbing and heating equipment and supplies	72	59,444
Machinery, equipment, and supplies	237	230,427
Miscellaneous durable goods	99	53,322
Paper and paper products	61	67,270
Drugs, drug proprietaries, and druggists' sundries	42	47,513
Apparel, piece goods, and notions	71	58,661
Groceries and related products	310	696,494
Farm-product raw materials	6	2,603
Chemicals and allied products	25	31,354
Petroleum and petroleum products	43	506,337
Beer, wines, and distilled alcoholic beverages	31	130,745
Miscellaneous nondurable goods	188	152,533

Source: U.S. Bureau of the Census, 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 1.

Table 537.-- SELECTED SERVICE INDUSTRIES, BY KIND OF BUSINESS: 1977

Kind of business	Number of establishments	Receipts ($1,000)
Selected service industries	8,023	1,276,163
Hotels, motels, trailering parks, and camps	240	548,829
Personal services	1,927	83,249
Business services	2,351	173,440
Automotive repair, services, and garages ..	864	164,276
Miscellaneous repair services	587	34,425
Amusement and recreation services, including motion pictures	961	87,670
Dental laboratories	52	4,452
Legal services	506	68,671
Engineering, architectural, and surveying services	535	111,151

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-A-12, table 1.

Table 538.-- MEMBERSHIP ORGANIZATIONS: 1977

[Data are shown only for establishments with payroll, and exclude religious membership organizations.]

Kind of activity or operation	Number of establishments	Expenses ($1,000)	Paid employees mid-March
Membership organizations, except religious	362	49,257	2,399
Business associations	56	8,015	319
Professional membership organizations	20	3,076	104
Labor unions and similar labor organizations	68	16,640	524
Civic, social, and fraternal associations	181	18,647	1,302
Political organizations	3	392	8
Membership organizations, n.e.c.	34	2,487	142

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-9, Miscellaneous Subjects (June 1981), table 33.

Table 539.-- TRAVEL AGENCIES, TOUR OPERATORS, AND RELATED SERVICES: 1977

[For 1972 data, see 1977 edition, table 360, p. 309.]

Subject	Total	Travel agencies	Tour operators	Other services
STATE TOTALS				
All establishments:				
Number	411	...	...	...
Receipts ($1,000)	75,702	...	...	...
Establishments with payroll:				
Number	312	175	80	57
Receipts ($1,000)	74,480	28,250	37,914	8,316
Payroll, entire year ($1,000)	29,232	11,213	14,245	3,774
Paid employees, mid-March	3,512	1,259	1,738	515
OAHU				
Establishments with payroll:				
Number	280	155	74	51
Receipts, total ($1,000)	67,357	24,917	35,911	6,529
Commissions 1/	28,794	24,175	1,478	(V)
Tour operations 2/	32,735	141	32,594	(V)
Other travel related services	5,211	407	1,492	(V)
All other receipts	617	194	347	(V)
Operating expenses, total ($1,000)	(V)	(V)	(V)	5,395

V Insufficient coverage.

1/ Includes commissions and other receipts from the retail sale of passenger transportation and lodging.

2/ Receipts consist of the difference between the cost of assembling tours and the price received, whether sold at wholesale only or both wholesale and retail. For tour operators selling at retail only, the difference between selling price and cost is included with "commissions and other receipts."

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-7, Arrangement of Passenger Transportation (March 1981).

Table 540.-- HOTEL AND MOTEL CHARACTERISTICS: 1977

[Data are shown only for establishments with payroll.]

Subject	Hotels, 25 guestrooms or more		Hotels, fewer than 25 guestrooms	Motels, tourist courts	Motor hotels
	State total	Oahu			
Establishments 1/	153	93	14	24	7
Guestrooms as of Dec. 31 2/	35,426	23,766	221	626	(D)
Receipts ($1,000):					
Receipts from customers, total	540,697	338,339	1,085	3,279	(D)
Guestroom rentals	326,858	213,947	1,044	2,509	(D)
Meals, nonalcoholic beverages	133,265	72,308	-	609	(D)
Alcoholic beverages	50,134	28,825	41	56	(D)
Packaged liquor, wine, beer 3/	1,067	1,103	-	15	(D)
Other merchandise	5,078	1,237	-	90	(D)
Other sources	24,295	20,919	-	-	(D)
Other rental, concession receipts	17,442	13,272	76	(V)	(D)
Payroll, entire year ($1,000)	159,233	98,607	318	843	(D)
Payroll, first quarter ($1,000)	39,199	24,583	79	204	(D)
Paid employees, week of March 12	21,504	13,886	63	153	(D)
Weighted average percent of occupancy	80.9	(NA)	(D)	(D)	(D)
Average rate per occupied room (dollars)	31	(NA)	(D)	(D)	(D)

(D) Withheld to avoid disclosing data for individual companies.
(V) Insufficient coverage.
(NA) Not available.

1/ Hotels, motels, tourist courts, and motor hotels in Hawaii (with or without payroll) numbered 236. Of the 198 with payroll, the principal class of customer was reported as commercial for 19, tourist for 165, group/convention for 9, and other or unknown for 5.

2/ Guestrooms in hotels in business at the end of the year numbered 35,647, including 35,443 for transient guests and 204 for residential guests.

3/ The Oahu total for larger hotels exceeds the Statewide total, probably because of the method for expanding data from partial returns.

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, Subject Series, Hotels, Motels, and Other Lodging Places, SC-77-S-2 (April 1981), tables 1, 2, 3, 5, 10, and 15.

Table 541.-- HOTEL UNITS AND OCCUPANCY RATES, BY GEOGRAPHIC AREAS: 1967 TO 1981

Year	Number of hotel units, October 1/			Percent of units occupied, annual average 2/		
	State total	Oahu	Neighbor islands	State total 3/	Waikiki	Neighbor islands
1967	18,235	13,004	5,231	85.5	90.0	72.8
1968	21,243	15,138	6,105	83.7	89.2	75.2
1969	25,822	18,209	7,613	77.8	81.3	69.3
1970	30,323	21,217	9,106	71.2	74.1	64.8
1971	35,349	24,612	10,737	60.4	58.9	63.5
1972	35,653	24,441	11,212	68.9	70.0	66.4
1973	37,319	24,969	12,350	77.7	81.5	70.2
1974	39,558	25,352	14,206	77.5	82.0	69.4
1975	40,691	25,699	14,992	74.1	78.3	68.3
1976	44,093	27,099	16,994	76.9	82.6	68.4
1977	46,048	28,083	17,965	77.4	81.2	71.7
1978	48,790	29,294	19,496	79.5	82.1	75.5
1979	51,782	32,088	19,694	73.8	77.1	70.2
1980 4/ .	55,700	34,173	21,527	69.3	71.7	64.1
1981	57,239	33,480	23,759	68.2	73.9	59.1

1/ Except 1967 (December) and 1968 (November). Includes condominium units in rental pools for transient occupancy.

2/ Data for 1976 and later years omit several major hotels.

3/ Data include Oahu outside Waikiki, not shown separately.

4/ Occupancy rates revised from Data Book 1981, table 539.

Source: Hawaii Visitors Bureau, Annual Research Report (annual), Visitor Plant Inventory (three times a year), and records.

Table 542.-- HOTEL EMPLOYMENT AND PAYROLL RATIOS: 1972 TO 1982

Year	Hotel units, June 1/	Hotel employment, annual average 2/		Hotel payrolls, annual 2/		
		Total	Per unit	Total ($1,000)	Per unit (dollars)	Per worker (dollars)
1972	35,945	17,619	0.49	93,915	2,613	5,330
1973	37,131	18,857	0.51	107,525	2,896	5,702
1974	39,222	19,139	0.49	115,599	2,947	6,040
1975	39,977	19,885	0.50	128,659	3,218	6,470
1976	42,811	21,130	0.49	155,123	3,623	7,341
1977	46,143	22,313	0.48	175,602	3,806	7,870
1978	48,034	22,548	0.47	195,861	4,078	8,686
1979	51,185	23,735	0.46	218,954	4,278	9,225
1980	55,571	24,754	0.45	244,655	4,403	9,883
1981	56,502	24,626	0.44	264,433	4,680	10,738
1982	59,357	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Includes condominium units in rental pools for transient occupancy.

2/ For workers covered by the Hawaii Unemployment Security Law.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory (June issues) and Annual Research Report; Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 543.-- HOTELS AND OTHER ACCOMMODATIONS, BY GEOGRAPHIC AREAS: FEBRUARY 1982

Geographic area	All accommodations 1/		Condominiums 2/	
	Properties	Units	Properties	Units
State total ...	417	57,968	209	14,400
Oahu	147	33,492	45	5,687
Waikiki 3/	116	29,047	35	4,613
Rest of Oahu	31	4,445	10	1,074
Other islands	270	24,476	164	8,713
Hawaii	68	7,167	28	1,484
Kauai	61	5,147	34	1,679
Maui	133	11,596	97	5,326
Molokai	7	555	5	224
Lanai	1	11	-	-

1/ Hotels, apartment hotels, motels, etc., including condominium accommodations in rental pools for transient use.

2/ Condominium accommodations in rental pools for transient use.

3/ Includes Diamond Head and Kahala but not areas ewa and mauka (west and north) of the Ala Wai Canal. The 116 properties include 63 hotels (with 23,897 units), 35 condominiums (with 4,613 units), and 18 apartment hotels (with 537 units).

Source: Hawaii Visitors Bureau, Visitor Plant Inventory, February 1982.

Table 544.-- HOTEL UNITS, EXISTING AND PLANNED, BY ISLANDS AND RESORT AREAS: 1981 AND 1982

Geographic area	Existing units, February		Units under construction or planned, Feb. 1982, by completion date		
	1981	1982	1982	1983	No date
State total	56,769	57,968	1,872	1,040	3,786
Oahu	33,967	33,492	1,061	425	500
Waikiki and Kahala	29,473	29,047	1,061	425	-
Ala Moana	1,689	1,669	-	-	-
Honolulu	67	44	-	-	500
Airport	688	695	-	-	-
Leeward	1,379	1,230	-	-	-
Windward	671	807	-	-	-
Hawaii	6,705	7,167	401	-	1,700
Hilo-Honokaa	1,944	1,762	-	-	-
Naalehu-Ka'u	48	41	-	-	-
Volcano	37	37	-	-	-
Waimea-Kohala	483	1,078	351	-	-
Kona	4,193	4,249	50	-	1,700
Maui	10,713	11,596	300	265	1,200
Wailuku-Kahului	412	449	-	-	400
Lahaina-Napili	6,718	7,256	-	265	-
Hana	88	87	-	-	-
Kula-Makawao	14	17	-	-	-
Kihei-Wailea	3,481	3,787	300	-	800
Kauai	4,738	5,147	110	350	386
Lihue	779	847	110	350	-
Wailua-Kapaa	2,257	2,026	-	-	386
Hanalei	569	521	-	-	-
Poipu	1,101	1,721	-	-	-
Kalaheo	20	20	-	-	-
Kokee	12	12	-	-	-
Molokai	635	555	-	-	-
Lanai	11	11	-	-	-

Source: Hawaii Visitors Bureau, Visitor Plant Inventory for February 1981 and February 1982.

Table 545.-- PERCENT OF HOTEL UNITS OCCUPIED, BY GEOGRAPHIC AREAS: ANNUAL AVERAGES, 1980 AND 1981

Geographic area	1980 1/	1981
State total	69.3	68.2
Oahu	72.3	74.1
Waikiki	71.7	73.9
Hawaii	51.0	44.9
Hilo	34.4	35.3
Kailua-Kona	59.0	49.4
Maui	74.2	70.3
West Maui	76.1	73.7
Other	68.4	58.3
Kauai	69.6	62.7
South	52.5	46.2
East	75.1	68.5

1/ Revised from Data Book 1981, table 543.

Source: Hawaii Visitors Bureau, 1981 Annual Research Report and records, as reported by Pannell Kerr Forster for the Hawaii Hotel Association.

Table 546.-- HOTEL OCCUPANCY AND ROOM RATES, BY GEOGRAPHIC AREA: ANNUAL AVERAGES, 1980 AND 1981

Geographic area	Percentage of occupancy		Average daily room rate (dollars)		Average daily guest rate (dollars)	
	1980 1/	1981	1980 1/	1981	1980 1/	1981
State	69.27	68.23	47.37	49.73	24.40	25.70
Oahu	72.33	74.06	42.70	43.05	22.21	22.56
Waikiki:						
On beach	73.92	72.07	59.01	61.05	30.25	31.21
Off beach:						
With restaurant ...	73.19	73.82	34.78	33.90	17.50	17.39
Without restaurant.	66.46	76.11	27.67	27.40	14.56	13.90
Other Oahu	74.62	75.31	45.45	49.26	25.63	28.74
Hawaii	50.99	44.87	46.40	47.16	24.03	24.41
Hilo	34.36	35.27	33.71	30.53	18.06	16.42
Kona	59.03	49.45	49.96	52.81	25.64	26.99
Maui	74.18	70.26	61.34	73.27	31.64	37.04
West end	76.14	73.74	63.19	77.82	31.74	39.03
Other Maui	68.44	58.30	55.30	53.49	31.27	28.00
Kauai	69.61	62.68	55.16	56.06	26.51	27.42
East end	75.11	68.47	52.66	54.67	26.01	27.49
South end	52.46	46.23	66.36	61.90	28.41	27.16

1/ Revised from 1981 edition, table 544.

Source: Pannell Kerr Forster, Trends in the Hotel Industry Hawaii, December 1981.

Table 547.-- MOTION PICTURE AND TELEVISION PRODUCTION: 1976 TO 1981

Subject	1976	1977	1978	1979	1980 1/	1981 2/
Number of features filmed	31	63	58	54	58	54
Feature films for theater viewing	3	4	3	6	6	2
Feature films for TV viewing	1	5	5	8	2	1
Television specials and series 3/	27	54	50	40	50	51
Gross budgets (millions of dollars) 4/ .	26	39	45	78.5	47.5	40
Feature films and television specials and series	20	30	36	63.5	36.5	32
Television commercials and related advertising	6	9	9	15	11	8
Expenditures in Hawaii for feature films and TV specials and series (millions of dollars)	11	16	22	34.75	21.2	17
Tax revenues generated (millions of dollars)	1.01	1.51	2.04	3.14	1.9	1.5
Employment:						
Total	918	1,265	1,610	2,543	1,551	1,244
Direct	622	856	1,091	1,723	1,051	843
Spending effect on economy (millions of dollars)	29.2	42.4	58.2	91.9	56.1	45.0

1/ Activity affected by a prolonged strike of the Screen Actors Guild, which affected major productions during much of 1980, and changes in immigration regulation enforcement policies, which brought filming of foreign TV commercials to a virtual halt.

2/ Activity affected by a writers' strike, directors' strike, and continuation of the strict enforcement of immigration regulations initiated in 1980.

3/ Each program in a series counted separately.

4/ Includes post-production costs out of the State.

Source: Hawaii State Department of Planning and Economic Development, Hawaii Film Office, unpublished estimates.

Table 548.-- NUMBER AND GROSS SALES OF LIQUOR LICENSEES, FOR OAHU: 1980 AND 1981

Class of licensee	Licenses in effect, June 30		Gross liquor sales of licensees, year ended June 30 ($1,000)	
	1980	1981	1980	1981
All categories	1,255	1,295	352,004	373,635
Cabarets	33	37	12,670	13,337
Clubs 1/	16	16	2,742	3,030
Dispensers 2/	682	702	117,872	123,733
Retailers 3/	467	480	82,946	90,818
Wholesalers	23	25	118,062	125,345
Manufacturers	4	4	1,039	1,101
Tour or cruise vessel ...	19	21	1,584	1,196
Hotel	8	8	15,089	15,075
Solicitor	3	2	-	-

1/ Private.

2/ Bars, restaurants, etc.

3/ Package goods stores, including supermarkets, drug stores, etc.

Source: City and County of Honolulu, Department of Finance, Liquor Commission, Forty-Ninth Annual Report of the Liquor Commission, 1980-81, p. 11, and information provided February 3, 1982.

Table 549.-- LIQUOR AND TOBACCO TAX BASES: 1976 TO 1981

[Wholesale value, in thousands of dollars. Excludes sales on military bases.]

Year 1/	Liquor tax base 2/			Tobacco tax base
	Total	Base for taxes paid	Base for taxes contested	
1976	76,659	76,659	-	24,413
1977	86,229	86,229	-	26,077
1978	93,560	93,560	-	28,082
1979	111,588	88,859	22,729	31,020
1980	122,848	42,691	80,157	33,275
1981	132,513	49,182	83,332	35,151

1/ Calendar year in which reported; data accordingly refer in general to liquor and tobacco sales for 12-month periods ended November 30.

2/ In 1979, several major distributors legally contested the State liquor tax law. Tax revenues that otherwise would have been collected under this law are being held in escrow until the courts rule on the case.

Source: Hawaii State Department of Taxation, "Liquor Tax Base, Collections and Permits; Tobacco Tax Base, Collections and Licenses" (annual release), and records.

Table 550.-- APPARENT CONSUMPTION OF DISTILLED SPIRITS, TOTAL AND PER CAPITA: 1971 TO 1980

Year	Total (1,000 wine gal.)	Per capita 1/ (wine gal.)	Year	Total (1,000 wine gal.)	Per capita 1/ (wine gal.)
1971	1,200	1.44	1976	2,024	2.09
1972	1,481	1.70	1977	2,190	2.21
1973	1,809	2.01	1978	2,160	2.14
1974	1,947	2.11	1979	2,200	2.12
1975	1,970	2.09	1980	2,215	2.10

1/ Based on estimated de facto population (DPED Statistical Report 147, table 2, as revised for 1980).

Source: Distilled Spirits Council of the United States, Annual Statistical Review 1980, Distilled Spirits Industry (1982), p. 37.

Table 551.-- ALCOHOL BEVERAGE APPARENT CONSUMPTION AND PUBLIC REVENUES, BY TYPE OF BEVERAGE: 1977 TO 1980

Year	Apparent consumption (1,000 wine gallons)			Revenues from State and local collections 1/ ($1,000)			
	Distilled spirits	Wine	Beer	Total	Distilled spirits	Wine	Beer
1977 ..	2,095	1,901	24,490	24,775	10,076	1,786	12,913
1978 ..	2,160	2,493	21,390	26,878	11,558	2,661	12,660
1979 ..	2,200	2,427	25,110	25,921	10,135	3,266	12,520
1980 ..	2,175	2,685	27,621	14,074	5,081	1,844	7,149

1/ Major part of revenues for 1980 held in escrow pending a court decision because liquor law has been challenged by some dealers. Escrow revenues not included but subject to future collection.

Source: Distilled Spirits Council of the United States, Inc., Public Revenues from Alcohol Beverages (annual).

Section 24

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods, services, and capital between Hawaii and the rest of the world, with particular emphasis on trade and investment involving foreign countries.

Imports to Hawaii from foreign nations rose from $224 million in 1971 to $1.98 billion in 1981. Exports to foreign countries amounted to only $46 million in 1971, but by 1981 exceeded $237 million. (These figures, it should be noted, refer to merchandise imports and exports through the Honolulu Customs District. They do not necessarily represent exports of commodities originating in Hawaii, nor imports for direct consumption within the State.)

Trade with the Mainland United States has similarly risen in the past decade. Merchandise received from the Mainland increased from $887 million in 1968 to $2.2 billion in 1978, the most recent year available. Merchandise exported to the Mainland rose from $329 million in 1968 to $817 million in 1974, then slipped back to $495 million in 1978.

Among the foreign nations, Hawaii's leading trading partners in 1981 were Indonesia for imports and Australia for exports. Imports from Indonesia amounted to $709 million, or 36 percent of the total, while exports to Australia reached $61 million or 26 percent of all foreign exports. About 48 percent of all imports for consumption were petroleum and natural gas products.

Honolulu Foreign Trade Zone No. 9 handled merchandise valued at $46.2 million in fiscal 1981. Merchandise handled by Subzone No. 9A, the PRI refinery, was valued at $1.7 billion, almost all of it in petroleum and petroleum products.

Foreign-owned U.S. firms in Hawaii operated 263 establishments in 1980, and employed 11,738 persons with an annual payroll of $157 million. Out of 56,502 hotel rooms in the State as of July 1981, 10,333 (or 18.3 percent) were foreign owned.

Sources for statistics on interstate and foreign commerce include the U.S. Bureau of the Census (for foreign trade and foreign-owned firms), the Bank of Hawaii (for interstate trade and balance of payments), Foreign Trade Zone No. 9 and Subzone No. 9A, and the Hawaii International Services Agency. Further information appears in cargo data by origin and destination, compiled by the Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 31 of Statistical Abstract of the United States: 1981. Long-term Island trends are summarized in Historical Statistics of Hawaii, Section 21.

Table 552.-- INTERSTATE TRADE:
1968 TO 1978

[In millions of dollars.]

Year	Imports	Exports
1968	886.7	329.1
1969	1,029.1	321.7
1970	1,194.1	339.8
1971	1,201.4	365.7
1972	1,220.0	350.2
1973	1,563.5	381.8
1974	1,866.2	817.0
1975	1,773.9	522.4
1976	1,756.3	415.2
1977	1,982.7	471.0
1978	2,185.5	494.7

Source: Bank of Hawaii, Hawaii 81 (August 1981), p. 44. Compiled from reports of major shippers and carriers, for commodities moving between Hawaii and the Mainland.

Table 553.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT: 1971 TO 1981

[Value, in millions of dollars, of U.S. imports and exports entered or exported through the Honolulu Customs District. The data may include imports intended for consumption on the Mainland and exports originated on the Mainland.]

Year	General imports 1/	Imports for consumption 1/	Exports of foreign and domestic merchandise 2/
1971	223.6	215.5	46.3
1972	244.3	227.5	60.4
1973	340.1	304.9	72.8
1974	645.3	605.5	115.2
1975	784.4	757.6	95.7
1976	915.1	876.5	66.2
1977	1,038.2	988.1	98.3
1978	1,184.5	1,126.4	137.8
1979	1,334.6	1,238.5	176.1
1980	1,842.0	1,721.4	174.3
1981	1,982.2	1,525.4	237.7

1/ Customs value basis. Excludes vessels under their own power or afloat and shipments valued under $251.

2/ Totals are on f.a.s. (free alongside ship) basis.

Source: U.S. Bureau of the Census, U.S. Foreign Trade: Highlights of Exports and Imports, FT 990 (through 1973) and Highlights of U.S. Export and Import Trade, FT 990 (1974 and later), cumulative totals in December issues.

Table 554.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT, BY METHOD OF TRANSPORTATION: 1981

[See headnote to preceding table.]

Category and method of transportation	Value 1/ (million dollars)	Shipping weight (million pounds)
General imports, all methods 2/	1,982.2	(NA)
Vessel	1,337.6	8,627.0
Air	630.5	15.1
Imports for consumption, all methods 3/	1,525.4	(NA)
Exports, all methods 2/	237.7	(NA)
Vessel	59.1	478.7
Air	74.2	18.1

NA Not available.

1/ Customs value basis for imports; f.a.s. (free alongside ship) value basis for exports. See source for definitions.

2/ Includes categories not tabulated by method of transportation, not shown separately.

3/ Not available by method of transportation.

Source: U.S. Bureau of the Census, Highlights of U.S. Export and Import Trade, FT 990, December 1981, tables E-4 and I-14.

Table 555.-- FIREWORKS IMPORTED INTO THE HONOLULU CUSTOMS DISTRICT: 1979 TO 1981

Year	Pounds	Value (dollars)
1979	730,375	1,174,513
1980	1,654,953	2,059,943
1981	1,156,260	1,571,283

Source: U.S. Bureau of the Census, Foreign Trade Statistics, IA 253 (annual tabulations).

Table 556.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY REGION OF ORIGIN OR DESTINATION: 1980 AND 1981

[In dollars. Includes all foreign trade through the Honolulu Customs District, and thus may include imports intended for consumption in other States or exports originated in other States. Excludes imports intended for consumption in Hawaii but entering through other customs districts, and exports originated in Hawaii but shipped through other customs districts.]

Region	Imports for consumption		Exports of domestic merchandise	
	1980	1981	1980	1981
All regions	1,842,028,149	1,982,226,167	174,308,159	237,683,704
North America 1/	20,979,756	24,910,422	5,742,156	18,029,734
Latin America 2/	154,371,065	117,204,950	6,258,707	2,914,659
Europe	115,281,661	94,562,411	6,796,981	5,840,588
Asia	1,494,088,255	1,696,807,278	73,748,938	115,321,605
Australia and Oceania ...	55,681,456	47,858,492	81,546,939	95,531,748
Africa	1,625,956	882,614	214,438	45,370

1/ Excluding Latin America.
2/ Includes Central and South America, Bermuda, and the Caribbean.
Source follows next table.

Table 557.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COUNTRY OF ORIGIN OR DESTINATION: 1981

[See headnote to preceding table.]

Country 1/	Imports for consumption: Total	Imports for consumption: Excluding petroleum and natural gas products	Exports of domestic merchandise
All countries	1,982,226,167	1,028,714,415	237,683,704
Indonesia	708,653,020	767,452	4,060,920
Singapore	294,976,705	288,462,283	3,774,639
Japan	236,746,170	236,746,170	37,460,966
Malaysia	162,909,184	87,765,552	52,667,638
Brunei	100,296,374	-	-
Taiwan	81,983,119	81,983,119	4,154,771
Australia	19,956,946	15,553,382	60,906,340
Philippines	60,000,293	60,000,293	2,530,038
Bahamas	56,589,777	56,589,777	-
Canada........................	24,910,422	24,910,422	18,029,734
France........................	36,381,794	36,381,794	512,478
Hong Kong.....................	28,846,895	28,846,895	4,803,588
New Zealand	14,797,461	14,797,461	7,613,427
Korea, Republic of	9,538,095	9,538,095	4,954,507
French Pacific Islands.......	1,538,611	1,538,611	11,857,350
Trust Terr. of Pacific I. ...	624,894	624,894	11,812,497

1/ Shown separately for the 10 leading countries in each category, listed in order of total foreign trade through the District.

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, Hawaii's Foreign Trade (International Business Series No. 27, May 1982), and records.

Table 558.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COMMODITY CLASSIFICATION: 1981

[See headnote to table 556.]

Commodity classification	Imports for consumption	Exports of domestic mdse.
Total	1,982,226,167	237,683,704
Animal and vegetable products	96,053,488	32,923,917
Wood and paper; printed matter	21,097,496	4,761,940
Textile fibers and products	27,012,483	2,481,592
Chemicals and related products	1,026,815,387	18,053,337
Nonmetallic minerals and products	24,645,853	763,861
Metals and metal products 1/	659,705,535	...
Metals, machinery and transportation equipment 1/	...	155,223,426
Specified, miscellaneous products	119,933,753	22,945,783
Special classification provisions	6,558,348	529,848
Temporary provisions	403,824	-

1/ Imports and exports have different classification titles for similar commodities.

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, Hawaii's Foreign Trade (International Business Series No. 27, May 1982).

Table 559.-- FOREIGN-TRADE ZONE NO. 9 AND SUBZONE NO. 9A OPERATIONS: 1968 TO 1981

[Years ended June 30 through 1976 and September 30 thereafter.]

Fiscal years	Foreign-Trade Zone No. 9 1/					
	Firms using zone	User employment at zone 2/	Value of mdse. ($1,000)		Revenue 4/ (dollars)	Expenditures 4/ (dollars)
			In/out	Exports		
1968 ..	82	42	6,279	498	88,060	122,718
1969 ..	94	56	10,078	1,187	120,990	122,628
1970 ..	124	65	11,682	1,850	160,438	156,424
1971 ..	138	57	17,363	3,147	206,159	193,450
1972 ..	132	58	20,648	2,894	289,301	229,379
1973 ..	140	83	23,442	2,775	267,393	260,251
1974 ..	139	113	25,394	6,140	355,737	325,633
1975 ..	148	131	29,828	6,317	463,008	415,371
1976 ..	179	139	24,396	4,576	481,172	429,496
1977 ..	205	145	25,702	3,956	700,470	606,720
1978 ..	191	193	29,095	4,395	835,004	574,044
1979 ..	204	221	34,928	4,450	545,380	568,607
1980 ..	211	263	37,118	6,396	638,961	615,361
1981 ..	186	274	46,188	12,093	750,676	714,750

Fiscal years	Subzone No. 9A 5/				
	User employment at subzone 2/	Merchandise, in/out		Exports	
		Quantity (1,000 short tons)	Value ($1,000)	Quantity (1,000 short tons)	Value ($1,000)
1972 ..	45	453.0	9,300	41.1	1,106
1973 ..	73	3,250.0	76,760	1,178.1	33,614
1974 ..	95	3,046.8	156,454	564.0	52,436
1975 ..	(NA)	3,794.6	340,996	707.1	72,003
1976 ..	159	5,755.7	534,023	815.2	80,719
1977 ..	156	6,349.6	608,815	893.2	83,134
1978 ..	139	6,837.5	705,711	1,178.5	117,247
1979 ..	149	6,507.8	862,559	1,070.1	149,646
1980 ..	161	6,408.9	1,471,841	1,184.5	295,528
1981 ..	182	6,188.2	1,728,457	1,396.3	406,084

Continued on next page.

Table 559.-- FOREIGN-TRADE ZONE NO. 9 AND SUBZONE NO. 9A OPERATIONS: 1968 TO 1981 -- Con.

NA Not available.
1/ Began operation June 15, 1966.
2/ For firms occupying facilities on a continuing basis only.
3/ Data for 1969-1980 revised from 1981 edition, table 555.
4/ Data for 1972-1979 revised from 1980 edition, table 488.
5/ Began operation April 7, 1972.

Source: Hawaii State Department of Planning and Economic Development, Foreign-Trade Zone No. 9, annual reports and records.

Table 560.-- CHARACTERISTICS OF ESTABLISHMENTS OF FOREIGN-OWNED U.S. FIRMS IN HAWAII: 1975 AND 1980

Kind of establishment and year	Firms	Establishments	Employment	Payroll annual ($1,000)
All foreign-owned firms:				
1975	39	123	7,111	57,340
1980	91	263	11,738	157,084
Manufacturing:				
1975	...	8	560	8,062
1980	...	14	723	14,055
Nonmanufacturing:				
1975	...	115	6,551	49,278
1980	...	249	11,015	143,029

Source: U.S. Bureau of the Census, Selected Characteristics of Foreign-Owned U.S. Firms: 1975-1976, Series FOF, No. 1 (November 1978), and Selected Characteristics of Foreign-Owned U.S. Firms: 1980, Series FOF, No. 4 (June 1982).

Table 561.-- EMPLOYMENT RELATED TO MANUFACTURED EXPORTS: 1977 AND 1980

Subject	1977	1980
Employment related to manufactured exports, total	2,700	6,800
Manufacturing industries	700	1,300
Nonmanufacturing industries	2,000	5,500
Employment related to manufactured exports as percent of --		
Total civilian employment 1/	0.7	1.8
Total private sector employment 2/	1.0	2.3

1/ The U.S. average in 1980 was 5.0.
2/ The U.S. average in 1980 was 6.0.
Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Origin of Exports of Manufactured Products, MC77-SR-12 (June 1981), table 2a, and U.S. Department of Commerce, News Release CB82-16 (February 3, 1982).

Table 562.-- AGRICULTURAL LAND HOLDINGS OF FOREIGN OWNERS: FEBRUARY 1, 1979

Subject	Amount
Privately owned agricultural land (1,000 acres)	1,992
Foreign-owned agricultural land (acres)	47,938
Percent foreign-owned 1/	2.4

1/ The percent for Hawaii ranked second among the 50 States, exceeded only by Maine (5.1 percent) and well above the national average (0.5 percent).
Source: U.S. Department of Agriculture, Economics and Statistics Services, Foreign Ownership of U.S. Agricultural Land, February 1, 1979 Through December 31, 1980 Agriculture Information Bulletin No. 448 (July 1981), p. 9.

Table 563.-- FOREIGN INVESTMENTS IN HAWAII: 1959 TO JULY 1981

[In thousands of dollars. Estimates based on partial reporting.]

Subject	Amount
Cumulative total 1/	1,096,905
Year:	
1970 and earlier years	49,900
1971	6,000
1972	64,950
1973	156,600
1974	160,600
1975	22,100
1976	63,800
1977	31,900
1978	81,000
1979	292,770
1980	151,285
1981, to July 1/	16,000
Country of investor:	
Australia	92,600
Canada	103,270
France	15,000
Hong Kong	119,715
Japan	705,850
Korea, South	9,500
Netherlands Antilles	10,570
Saudi Arabia	1,300
Taiwan	13,500
United Kingdom	25,600
Type of investment:	
Agriculture	55,100
Golf courses	17,300
Hotels 2/	465,500
Manufacturing	4,700
Real estate	416,040
Restaurants	9,450
Retailing	60,815
Science and education	47,500
Miscellaneous	20,500

Continued on next page.

Table 563.-- FOREIGN INVESTMENTS IN HAWAII: 1959 TO JULY 1981 -- Con.

1/ Excluding $333.4 million to be completed after July 1981.

2/ Hawaii had 25 foreign-owned hotels as of July 1981, with 10,333 units. Japanese owners accounted for 18 hotels and 8,672 units; Canadians, for 4 hotels with 782 units; and three other countries, for 3 hotels with 879 units.

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency (HISA), revised data supplied September 1981.

Table 564.-- BALANCE OF PAYMENTS: 1975 TO 1978

[In millions of dollars. Excludes capital movement items such as the flow of investment funds, deposits of financial institutions, loans and repayment of loans, securities, and currency.]

Category	1975	1976	1977	1978
EARNINGS BY HAWAII FROM OVERSEAS				
Total earnings	4,351	4,632	5,381	6,048
Commodity exports	616	481	569	632
Federal expenditures	1,979	2,186	2,381	2,559
Services performed	1,543	1,711	2,141	2,515
Return on overseas investments	213	254	290	342
EXPENDITURES BY HAWAII TO OVERSEAS				
Total expenditures	4,864	4,961	5,635	6,267
Commodity imports	2,558	2,671	3,025	3,370
Payments to Federal government	1,215	1,118	1,301	1,425
Services performed	779	827	929	1,041
Return on investments in Hawaii	312	345	380	431

Source: Bank of Hawaii, Hawaii 81, Annual Economic Review (August 1981), p. 44. Based on data from a variety of private and governmental sources, including published reports, interviews, answers to letters, and related procedures.

BIBLIOGRAPHY

This volume is the sixteenth in a series published by the Hawaii State Department of Planning and Economic Development and its predecessor agencies. The first was Statistical Abstract of Hawaii, 1962, issued by the Department of Planning and Research in 1962. After a four-year hiatus, updated versions titled The State of Hawaii Data Book were published by the Department of Planning and Economic Development in 1967, 1968, and annually beginning in 1970. Most of the volumes issued prior to the present edition are now out of print, but copies can be consulted in the DPED Library, Hawaii State Library, University of Hawaii and community college libraries, Honolulu Municipal Reference Library, and other collections throughout the State.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the Data Book, in footnotes and source references to the various tables, and in other DPED publications. Three of these DPED reports cover statistical sources in considerable detail: Statistics in Hawaii: 34 Papers Prepared for the Hawaii Statistical Reporting System Workshop, February 18-20, 1970, at Waikiki (1970), Proceedings of the Conference on Socio-Environmental Indicators, March 15-17, 1971, Honolulu, Hawaii (1971), and Inventory of Hawaii Planning Information (1973). The first two are reports of statistical symposia. The third is a 164-page reference work prepared for the Hawaii Urban Planning Information Center, containing detailed geographic and subject-matter indexes and source listings. These reports are now out of print, but copies can be consulted in most Hawaii libraries.

Although most of the series in the Data Book are shown only for recent years, earlier figures in many cases can be found in Historical Statistics of Hawaii, by Robert C. Schmitt. This book, published by the University Press of Hawaii in 1977, contains 711 pages of narrative and tables on the development of statistics in Hawaii since the 18th century. Copies are available from the University Press and various book stores for $30.00.

Another useful publication is Statistical Sources in Hawaii: Reference Guide to Materials Available at the Hawaii State Library, compiled by Masae Gotanda and published by the Office of Library Services of the Hawaii State Department of Education in November 1978.

Privately published works of general statistical reference include Hawaii Facts and Figures and All About Business in Hawaii. Hawaii Facts and Figures is a publication of the Chamber of Commerce of Hawaii, first issued (under a different title) more than forty years ago. The most recent edition appeared early in 1982, with statistics through 1981; copies are available from the Chamber for $2.00. All About Business in Hawaii, 1982 Edition, is the tenth in an annual series published by Crossroads Press, Inc. The current edition costs $3.50.

Two other privately published reports containing useful statistics are the annual economic reviews of the two largest banks in the State. The current editions are Hawaii 82, published by the Bank of Hawaii in October 1982, and Hawaii in 1981, issued by the First Hawaiian Bank as a supplement to its monthly Economic Indicators for April 1982. Greater detail appears in Hawaii's Economic Indicators: Sources, Definitions, and Trends, published by the First Hawaiian Bank in March 1980.

The County of Hawaii, Department of Research and Development, has published its own County of Hawaii Data Book 1980, presenting 264 pages of statistics for the Big Island. This report, dated December 1980, is available for $7.50 (postpaid, $10.00).

A similar report for Kauai, 1981 Kauai Statistical Review: An Annual Report of the County's Economic Indicators, is issued by the Kauai Office of Economic Development. The most recent edition, presenting data for 1981, was released in mid-1982 and contains 42 pages of tables.

Persons interested in comparisons between Hawaii and other States or the nation as a whole should consult the Statistical Abstract of the United States and its companion volumes, the State and Metropolitan Area Data Book and County and City Data Book. The Abstract is an annual publication of the U.S. Bureau of the Census, initiated in 1878. The current edition is the 102nd, dated 1981; copies are available for $16.00 (cloth) or $11.00 (paper) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. The State and Metropolitan Area Data Book, 1982, will soon be issued by GPO. The County and City Data Book, most recently issued for 1977, is sold by the same agency for $21.00. All three volumes are (or soon will be) on the shelves of most libraries.

Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK: 1962 TO 1981

Edition	Number of pages	Number of tables	Price (dollars)		Printing costs (dollars)	Number of copies printed
			Hawaii	Outside State		
1962 1/	128	243	1.00	1.00	(NA)	(NA)
1967	66	95	(NA)	(NA)	1,969.45	3,000
1968	69	99	1.00	1.00	2,969.20	3,000
1970	136	135	1.00	1.00	2,470.92	2,030
1971	159	152	2.00	2.00	4,149.60	2,000
1972 2/	227	210	4.00	5.00	6,245.00	3,000
1973	290	261	4.00	5.00	6,309.00	1,500
1974	306	291	4.00	5.00	9,330.00	2,000
1975	302	308	4.00	5.00	10,222.95	2,000
1976	312	334	4.00	5.00	9,901.13	2,000
1977	339	372	4.00	5.00	11,990.00	2,000
1978	379	422	4.00	5.00	8,900.00	2,000
1979	405	447	4.00	5.00	10,744.00	2,500
1980	546	496	5.00	10.00	12,335.00	2,500
1981	601	563	5.00	10.00	14,910.00	3,000

NA Not available.

1/ The 1962 edition was titled Statistical Abstract of Hawaii, 1962. In addition, a 41-page, 57-table supplement, Historical Statistics of Hawaii, 1778-1962, was published and distributed without extra charge to persons receiving the regular edition.

2/ A 19-page supplement, State of Hawaii Census Tract Maps and Directory of Hawaii Map Sources, was included with each copy of the regular edition, and was not sold separately.

Source: DPED records.

INDEX

Subject	Page Numbers
Abortions	56, 63
Accidents	
Aircraft	65
Beach	215
Boating or shipping	65, 447
Deaths	64, 65, 215, 298, 371, 426, 427, 447
Industrial	298, 299
Traffic	65, 426, 427
Adoptions	260
Age of population	35-38
Agreements of sale	511
Agriculture	
Acreage	174, 176-178, 182, 183, 456-462, 466, 470, 471, 528
Aquaculture	455, 470, 471
Crop sales	455, 458-462, 466, 467
Employment, jobcounts, and payrolls	282-285, 289, 456, 457
Farms	455-461, 466, 467, 470
Flowers and nursery products	455, 466, 467
Foreign investment	568-570
Injuries, illnesses, and lost workdays	299
Livestock	455, 458-461, 463-465
Market supply	455, 468
Pineapple (See also Pineapple)	458-461
Production value	456-462, 464, 465-467, 470, 471
Production volume	460-462, 464, 465, 467, 468, 470, 471
Productivity ratings	469
Soil loss	469

Subject — Page Numbers

Agriculture - Continued
  Sugarcane (See also Sugar) 458-461, 528
  Wages and salaries 289
  Water use 152

Air quality 155-157

Aircraft, airlines and airports. See Transportation, Air

Ala Moana Center 542

Alien population 43, 44, 51-54

Aquaculture 455, 470, 471

Aquarium, Waikiki 209

Area, land and water. See Geography

Armed forces
  Active duty 14, 38, 39, 41, 49, 265-269
  Age 38
  Airports and aircraft operations 431, 432
  Arrivals as intended residents 50
  Births to military families 41, 49, 57-60
  Civilian employment and jobcounts 248, 269
  Components of change in population 49
  Deaths 49, 57
  Dependents 14, 38, 39, 41, 49, 266-268
  Dependents in public schools 97
  Ethnicity 39
  Expenditures 244-246, 265, 270, 271, 305
  Families 267, 268
  Housing 268, 271
  Migration 50, 53, 54
  National Guard 269
  Place of birth 41
  Residents on active duty 266
  Retail facilities 543
  Sex 38
  Veterans and retirees 272

Arrests 109, 112, 114-116, 118, 119

Arts, performing 207, 208

Subject	Page Numbers
Attorneys and legal services	121, 122
Automobiles. *See* Transportation, Ground	
Balance of payments	570
Bankruptcy	123
Banks	357-359, 362, 512
Baseball	223, 224
Basketball	223, 224
Beaches	153, 154, 217, 218, 221
Bibliography	571, 572
Bicycles	421
Bird counts, Audubon Society	169
Births	
Characteristics of infants and parents	60
Congenital malformations	60
Ethnicity	60
Fertility	59, 60
Illegitimate	56, 60
Military families	41, 49, 57-60
Names, most common	61
Place of birth	41, 42
Premature	60
Rates	55-60
Boats and boating	
Accidents	65, 447
Commercial fishing	475
Fuel consumption	404
Moorages and lanes	218, 221
Participation	219
Registration	445, 446
Bridges, highway	414
Budgets	
Family	321, 322, 333, 334
Retired couple	333, 336, 337
Buses and bus service	417, 418, 420, 427-430

Subject — Page Numbers

Business (See also Corporations)
  Establishments, employees, and payroll 372-376
  Failures 380
  Foreign-owned 377
  Partnerships 377
  Proprietorships 378
  Registration 357, 377
  Small businesses 376
  Women-owned 380

Cable television 387

Campaign expenditures 353

Care homes 73

Cargo. See Transportation

Catastrophes 65, 151

Census tracts
  Households 27-33
  Land area 27-33
  Maps 24-26
  Population 27-33

Channels between islands 137, 138

Child abuse and neglect 120

Citizenship 43, 52

City, town, and village areas and populations 20-23

Climatic data 159-168

Coastline 139, 148

Colleges and universities 92, 98-103, 108

Commissaries and exchanges 543

Communications
  Employment, jobcounts, and payrolls 282-285, 289
  Newspapers 381, 389, 391
  Periodicals 390
  Postal service 381-383, 391
  Radio 386, 387
  Telegraph service 383, 391
  Telephone service 381, 384-386, 392
  Television 381, 386-388
  University Press of Hawaii 390
  Wages and salaries 289, 292, 293

Subject — Page Numbers

Commuting 430

Condominiums
  Conversions 491
  Inventory of units 491, 499, 500
  Prices 507
  Registered projects 490
  Visitor use 193, 551

Constitutional convention 339

Construction
  Building permits 483-485, 488-490
  Cost indexes 492
  Employment, jobcounts, and payrolls 282-285, 289, 493
  Government contracts 486, 487
  Hotel units 552
  Housing 483, 485, 488-492, 502, 503, 513
  Housing unit demolitions 489
  Industry characteristics 493
  Injuries, illnesses, and lost workdays 299
  Tallest structures 517-519
  Tax base 233, 494
  Wages and salaries 289, 292-294

Consumer price index 321-330

Conventions 196

Corporations
  Foreign-owned 377
  Hawaii companies, selected major 364, 379
  Hawaii shareholders 363, 364
  Profits 310
  Registration 377
  Taxable and nontaxable receipts 378

Correctional facilities 110, 111, 118, 119, 129

Cost of living. See Budgets and Consumer price index

Cost of living allowance (COLA), Federal employees 338

County councils, composition 354

Courts 109-111, 118, 119 121, 123-128

Credit unions 363

Subject	Page Numbers
Crime and criminals	
Arrests	109, 112, 114-116, 118, 119
Attorneys and legal services	121, 122
Child abuse and neglect	120
Correctional facilities	110, 111, 118, 119, 129
Criminal justice system operating statistics	109-111
Executions	131, 132
Judiciary	109-111, 118, 119, 121, 123-128
Marijuana confiscation	117
Offenses	109, 112-116, 118, 120, 124-126
Paroles and pardons	130
Police	110, 111, 118
Stolen property	116
Crops. See Agriculture	
Cultural attractions	184, 207-211
Customs District, Honolulu	561-565
Dams	151
Data Book printing history	573
Deaths	
Accidents	64, 65, 298, 426, 427, 447
Aircraft	65
Armed forces and dependents	49, 57, 58
Boating and shipping	65, 447
Cause	64, 65, 69
Characteristics of resident deaths	63
Diseases	69
Disposition of remains	65
Fire	371
Homicide	64
Industrial	298
Infant and fetal	56, 63
Rates	55-58, 63, 64
Traffic	65, 426, 427
Tsunamis	151
Deeds filed	510
Defense. See Armed forces	
Dental care	79
Dentists	76

Subject ..... Page Numbers

Department stores 539, 543

Diesel oil 404, 407

Disability 255, 258, 297

Diseases 55, 64, 66, 69

Disposable personal income 307, 311

Distances, great circle 133-136, 427

Divorces 80-82

Doctors 76

Drivers licenses 424

Drug stores 77

Drug use 70, 71

Earthquakes 150

Eating and drinking places 540, 569, 570

Education
- Achievement test results 104
- Colleges and universities 92, 98-103, 108
- Cost per pupil 96
- Days lost due to illness or injury 68
- Days of school 96
- Enrollment 92-95, 97, 98, 100, 103
- Expenditures 96, 101
- Federal support 102, 412
- Federally-connected pupils 97
- Graduates 93-95, 99, 100
- Libraries 92, 105-108
- Nutrition of students 89
- Research and development expenditures 412
- Schools 92-95, 101-103
- Sports 223, 224
- Teachers 93-96
- University of Hawaii 98, 99, 102, 108
- Years completed 103

Elected officials 339, 347-352

Elections 339-353

Electricity. See Energy

Subject — Page Numbers

Elevators, escalators, and similar facilities 515, 516

Employment and labor force
  - Age 279
  - Disability 255, 258, 297
  - Employers 287-289
  - Employment 103, 273-277, 285-289, 372-376
  - Ethnicity 279, 280
  - Industrial accidents, deaths, and insurance 298, 299
  - Industries 279, 282-285, 289, 292, 293
  - Interstate movement of job-seekers 296
  - Jobcounts 273, 281-284
  - Labor force 273-277
  - Labor turnover rates in manufacturing 291
  - Labor unions and employee associations 300, 301, 546
  - Minimum wage 295
  - Occupations 279, 286
  - Sex 274, 275, 279, 280
  - Strikes 282-284, 302, 303, 529
  - Unemployment 103, 274-276, 278, 279
  - Unemployment insurance 259, 287-289
  - Wages and salaries 96, 287-290, 292-295
  - Workdays lost due to illness or injury 68, 299

Endangered and extinct plants 170

Energy
  - Boilers and pressure vessels 408
  - Bunker oil 408
  - Consumer price index 325-330
  - Consumption 393-396
  - Diesel oil 404, 407
  - Electricity service and usage 393-395, 397, 398, 401-403, 409
  - Gas 399, 400, 402, 403
  - Gasoline service stations 407
  - Gasoline usage and price 318, 404, 406, 407
  - Geothermal 394, 395
  - Hydroelectric 152, 394, 395
  - Liquid fuels usage 393, 395, 404, 405, 407, 424, 425
  - Manufacturing establishments 410
  - Petroleum 394, 395
  - Solar water heating 410
  - Sugar mills 409
  - Utility rates 397-401, 403
  - Water use, hydroelectric and thermoelectric 152
  - Wood and waste 394, 395, 474

Subject — Page Numbers

- Environment. See Geography
- Erosion 469
- Ethnicity
  - Armed forces and dependents 39
  - Births of mixed race 60
  - Employed civilians 280
  - Heights and weights 84, 86
  - Legislature 355
  - Marriages, divorces 80, 81, 83
  - Population 39, 40
  - Unemployed 279
  - Voters 341, 344
- Exports 305, 308, 309, 453, 454, 559-568
- Family
  - Adoptions 260
  - Budgets 301, 322, 333, 334
  - Characteristics 46, 47
  - Expenditures 78, 304, 318-320
  - Income 314-320
  - Military 267, 268
  - Poverty level 316, 317
  - Tax burden 228
  - Visitor income 195
  - Workers in families 275
- Farms. See Agriculture
- Fertility 59, 60
- Financial institutions 357-363, 512
- Fire
  - Alarms, deaths, and losses 371
  - Forest 473
- Fireworks imported 562
- Fishery conservation zone 144
- Fishing
  - Commercial operations 472, 475-478
  - Recreational 216
- Flowers and nursery products 455
- Food (See also Agriculture)
  - Budgets, family 334, 335
  - Budgets, retired couple 336, 337

Subject .... Page Numbers

- Food - Continued
  - Consumer price index 325-330
  - Personal consumption expenditures 308, 309
  - Retail prices 331, 332
  - Retail stores 536-538, 540, 543
  - Wholesale establishments 544
- Food stamps 256
- Football 223, 224
- Foreclosures 511
- Foreign investment in Hawaii 377, 559, 567-570
- Foreign trade 408, 453, 454, 559, 561-567
- Foreign Trade Zone 559, 566, 567
- Forest
  - Acreage 472, 473
  - Fires 473
  - Products 474
- Foundations 261
- Fuels. _See_ Energy
- Gas utility 399, 400, 402, 403,
- Gasoline 318, 404, 406, 407
- Geography
  - Area, census tracts 27-33
  - Area, counties and islands 140, 141
  - Area, islands, cities, towns, and villages 20-23
  - Channels between islands 137, 138
  - Coastline 139, 148
  - Dams 151
  - Distances, great circle 133-136
  - Earthquakes 150
  - Fishery conservation zone 144
  - Lakes and reservoirs 147, 151
  - Miscellaneous geographical statistics 148
  - Mountains and elevations 142-144, 148, 149 160, 161
  - Pollution, water, air, and noise 133, 153-159
  - Shoreline 139
  - Streams 145
  - Tsunamis (seismic sea waves) 151
  - Volcanic eruptions 149
  - Water use 152
  - Waterfalls 146
  - Weather 133, 159-168

Subject — Page Numbers

Government (See also Elected officials and Elections)
- County
  - Bonded debt ... 246
  - Employment jobcounts, and payroll ... 248, 282-285, 289
  - Operating expenditures ... 225, 231, 232
  - Real property valuations ... 234-237
  - Tax collections and other revenues ... 225-227, 231, 232, 236
  - Wages and salaries ... 289, 290
- Federal (See also Armed forces)
  - Adjusted gross income on tax returns ... 238-240
  - Aid to State ... 229, 244
  - Employment, jobcounts, and payroll ... 248, 282-285, 289
  - Expenditures ... 244-246
  - Research and development obligations ... 411
  - Tax collections ... 225-227, 240
  - Wages and salaries ... 289, 290
- State
  - Adjusted gross income on tax returns ... 241-243
  - Bonded debt ... 246, 247
  - Employment, jobcounts, and payrolls ... 248, 249, 282-285, 289
  - General excise and use tax ... 233
  - Operating expenditures ... 225, 230
  - Real property valuations ... 234-237
  - Retirement system ... 260
  - Salary schedules ... 250
  - Tax collections and other revenues ... 225-227, 229, 233, 242, 243
  - Wages and salaries ... 289, 290
- Tax burden, four-person family ... 228

Gross state product ... 306, 308-310

Harbors. See Transportation, Water

Hawaii Housing Authority ... 501

Hawaii Visitors Bureau ... 202

Hawaiian Affairs, Office of ... 352

Hawaiian Home Lands ... 183

Health
- Accidents. See Accidents
- Acute conditions ... 66, 68
- Births. See Births
- Chronic conditions ... 67, 68
- Consumer price index ... 325-330
- Deaths. See Deaths
- Dental care ... 79
- Diseases ... 55, 64, 66, 69
- Drug stores, pharmacists, and prescriptions ... 77
- Drug use ... 70, 71

Subject — Page Numbers

- Health - Continued
  - Expenditures for health care ... 78, 308, 309, 334-337
  - Facilities ... 55, 72-76
  - Health and medical care personnel ... 55, 76, 77
  - Health service establishments ... 74
  - Heights and weights ... 84-88
  - Insurance ... 367, 369, 370
  - Leprosy ... 69
  - Life expectancy ... 66
  - Limitation of activity ... 68
  - Mental health ... 67, 75, 76
  - Nutrition ... 89-91
  - Pollution, water, air, and noise ... 153-159
  - Work or school days lost ... 68, 299

- Heights and weights of population ... 84-88

- Highways and streets. See Transportation, Ground

- Hospitals and health care facilities ... 55, 72-76

- Hotels
  - Employment, jobcounts, and payrolls ... 282-284, 289, 548, 550
  - Establishments ... 548
  - Foreign investment ... 569, 570
  - Occupancy rates ... 548, 549, 553, 554
  - Receipts ... 548
  - Room rates ... 548, 554
  - Rooms ... 548-552
  - Tallest ... 517-519
  - Tax base ... 233, 494
  - Wages and salaries ... 289, 292, 293

- Households (See also Family)
  - Census tracts ... 27-33
  - Characteristics ... 45-47
  - Income ... 314, 315
  - Mobility of household heads ... 505
  - Nonpermanent ... 206
  - Nutrition ... 91
  - Personal consumption expenditures ... 308, 309
  - Television ... 388
  - Vehicles available ... 421

- Housing (See also Condominiums)
  - Budgets, family ... 334, 335
  - Budgets, retired couple ... 336, 337
  - Characteristics ... 498-500, 513, 514
  - Construction ... 483, 485, 488-492, 502, 503
  - Consumer price index ... 325, 327, 329

Subject — Page Numbers

Housing - Continued
- Demolitions 489
- Fee simple land 495, 497
- Government 268, 271, 495, 497, 501
- Hawaii Housing Authority 501
- Homeownership 495, 497-500
- Leased land 495, 497
- Military 268, 271
- Personal consumption expenditures 308, 309
- Prices and values 490, 500, 506-508, 511, 513, 514
- Renter occupied 491, 494, 495, 497-501
- Solar water heating 410
- Units, total 173, 495-497, 499, 500, 502, 503
- Vacancy 402, 499, 500, 502-504

Humidity 163, 165

Immigration 43, 51-54

Imports 308, 309, 453, 454, 559-565

Income
- Adjusted gross income on tax returns 238-243
- Disposable personal 307, 311
- Export industries 304, 305
- Families 314-320
- Gross state product 306,308-310
- Households 314, 315
- Per capita 304, 306, 311, 313
- Personal 304, 307, 311-313
- Poverty levels 316, 317
- Unrelated individuals 314-317
- Visitors 195

Industrial loan licensees 358, 361, 512

Industrial parks and areas 526

Industries. See Employment and labor force

Insurance
- Business transacted in Hawaii 357, 365-370, 512
- Disability 255, 258
- Fire 367, 371
- Health 367, 369, 370
- Industrial accidents 298
- Life 366, 367
- Unemployment 259

Jails 110, 111, 118, 119, 129

Subject .... Page Numbers

Jobcounts. See Employment and labor force

Judiciary 109-111, 118, 119, 121, 123-128

Labor. See Employment and labor force

Lakes 147

Land and land use (See also Geography)
  Foreign investment 568-570
  Hawaiian Home Lands 183
  Ownership 171, 179-183, 568, 570
  Parcels 175
  Real property valuations 234-237
  Use 171-174, 176-178
  Use districts 177, 178
  Value of land transfers 510, 511, 513

Law enforcement. See Crime and criminals

Legislative bills and resolutions 356

Legislature, composition 354, 355

Leprosy 69

Libraries 92, 105-108

Life expectancy 66

Liquor sales, licenses, and consumption 556-558

Livestock 455, 458-461, 463-465

Manufacturing
  Capital expenditures 521, 528
  Cost of materials 521, 523
  Employment jobcounts, and payrolls 282-285, 289, 521-523, 526, 529, 567, 568
  Energy usage 410
  Establishments 520-522
  Foreign investment 567, 569, 570
  Industrial parks and areas 526
  Injuries, illnesses, and lost workdays 299
  Inventories 523
  Labor turnover rates 291

Subject Page Numbers

Manufacturing - Continued
  Pineapple companies and canneries 525
  Processed pineapple production 527, 530
  Raw sugar and molasses production 528, 530
  Sugar companies and mills 525
  Tax base 233, 520, 524
  Value added and value of shipments 520-523
  Wages and salaries 289, 292, 293, 529

Maps
  Census tracts 24-26
  State, counties, and districts 6

Marijuana 70, 71, 117, 455

Marital status 45-47

Marriages 80-83

Measures and weights, table 9, 10

Medical. See Health

Medicare 256

Migration 43, 49-54, 296, 505

Military. See Armed forces

Minimum wage 295

Mining 472, 479-482

Mortality. See Deaths and Health

Mortgages 511-513

Motion picture productions 555

Mountains and elevations 142-144, 148, 149

Multiple Listing Service 506-508

Museums 209-211

Names, most common 61, 62

Newspapers 381, 389, 391

Noise levels 158

Nurses 76

Nursing homes 73

Subject ...... Page Numbers

Office buildings, tallest 517-519

Office space occupancy and rent 508, 509

Parks 170, 182, 183, 212-215, 217, 218

Partnerships 377

Passengers. See Transportation

Passports issued 207

Patents issued 412

Performing arts 207, 208

Periodicals 390

Personal consumption expenditures 307-309

Personal income 304, 307, 311-313

Pets 224

Pharmacists 76, 77

Physicians and surgeons 76

Pilots, flight instructors, and nonpilot airmen 434

Pineapple
  Acreage 460, 461
  Companies and canneries 525
  Crop sales 458-461
  Crop volume 460, 461
  Employment, jobcounts, and payrolls 282-284, 289, 526
  Farms 460, 461
  Fresh and processed value 305
  Processed pineapple value 530
  Processed pineapple volume 520, 527
  Tax base 233, 520, 524
  Wages and salaries 289

Police 110, 111, 118

Political parties 344, 345, 347-355

Pollution, water, air, and noise 133, 153-159

Population (See also Armed forces and Health)
  Age 35-38, 43, 45-47
  Aliens 43, 44, 51-54

Subject .... Page Numbers

Population - Continued
- Armed forces (*See also* Armed forces) 11, 14, 38, 39, 41
- Birth place 41
- Census tract 27-33
- Cities, towns, and villages 20-23
- Citizenship 43, 52
- Components of change 49
- De facto 11, 15, 18, 35
- Density 18, 27-33
- Dependents, military 11, 14, 38, 39, 41
- Ethnicity 11, 39, 40
- Families. *See* Family
- Geographical location 16-23, 27-37, 40, 43, 45
- Heights and weights 84-88
- Households. *See* Households
- Language 42
- Migration 11, 43, 49-54, 296, 505
- Nativity 42, 43
- Nonpermanent residents 206
- Projections 35
- Religion 48
- Residence one year earlier 43, 54
- Resident 11-17, 19-23, 27-43, 45-47, 49, 206
- Residents absent 15, 206
- Rural and urban 13, 34
- Sex 36-38, 45-47
- Visitors present 15, 206
- Voting age 341, 344

Postal service 381-383, 391

Poverty level incomes 316, 317

Prescriptions 77

Prisons 110, 111, 118, 119, 129

Proprietorships 378

Public assistance
- Disability insurance 255, 258
- Food stamps 256
- Medicare 256
- Social Security 257, 258
- Unemployment insurance 259
- Welfare costs, total 251, 252
- Welfare payments and recipients 253-256

Publishing 381, 389-391

Quality of life index rankings 264

Subject	Page Numbers
Rivers	145
Race. *See* Ethnicity	
Radio	386, 387
Rainfall	159-166
Real property. *See* Housing *and* Land and land use	
Recreation	
Cultural attractions	184, 207-211
Facilities and land	174, 184, 212-215, 217, 218, 220-222
Parks	212-215, 217, 218
Participation	216, 219, 222
Personal consumption expenditures	308, 309
Sports	184, 215-224
Registered nurses	76
Religion	48, 83, 95
Rental housing. *See* Housing	
Research and development expenditures	411, 412
Reservoirs	147, 151
Residency, years of	43
Residents. *See* Population	
Retailing	
Department stores	539
Eating and drinking places	540
Employment, jobcounts, and payrolls	282-285, 289, 534, 543
Establishments	532, 534-543
Floor space	538, 541, 542
Foreign investment	569, 570
Injuries, illnesses, and lost workdays	299
Major retailers	543
Merchandise line sales	537
Military facilities	543
Sales	531-543
Shopping centers	541, 542
Tax base	533
Wages and salaries	289, 292, 293
Women-owned businesses	380
Retirement	258, 260, 333, 336, 337
Rural population	13, 34
Savings and loan associations	358, 360, 512

Subject — Page Numbers

Schools. See Education

Service industries (See also Hotels)
  Employment, jobcounts, and payroll 282-285, 289, 534, 546, 547
  Establishments 532, 534, 535, 545-547
  Receipts 532-535, 545, 547
  Tax base 533
  Wages and salaries 289, 292-294

Ships and shipping. See Transportation, Water

Shopping centers 541, 542

Shoreline 139, 221

Social security. See Public assistance

Social service organizations 253, 254, 261-263

Solar water heating 410

Sports 184, 215-224

Stockholdings of Hawaii residents 363, 364

Streams 145

Streets and highways. See Transportation, Ground

Strikes 282-284, 302, 303, 529

Structures and floor area 172, 173

Sugar
  Acreage 460, 461, 528
  Cane crop sales 458-461
  Cane volume 460, 461, 528
  Companies and mills 525
  Employment, jobcounts, and payrolls 282-284, 289, 529
  Energy generated, purchased, sold and used by mills .. 409
  Farms 460, 461
  Government support payments 530
  Raw sugar and molasses value 305, 520, 530
  Raw sugar and molasses volume 520, 528
  Raw sugar price 529
  Strikes 529
  Tax base 233, 520, 524
  Wages and salaries 289

Subject — Page Numbers

Sunrise and sunset times 168

Sunshine 160, 161, 163, 165, 168

Surf and surfing 167, 215, 219, 221

Symphony orchestra 207

Tabular presentation guide 8

Tallest structures 517-519

Taxes. See Government

Taxis 421

Teachers. See Education

Telegraph service 383, 391

Telephone service 381, 384-386, 392

Television 381, 386-388

Television productions 555

Temperature, climatic 159-162, 164, 165-167

Theater 208, 545

Tidal waves 151

Tobacco sales 557

Tourism (See also Hotels and Transportation)
  Characteristics of visitors 188, 189, 191-195
  Conventions 196
  Expenditures and economic impact 184, 196-201, 305
  Hawaii residents' travel 203-207
  Hawaii Visitors Bureau 202
  Nonpermanent households and residents 206
  Passenger arrivals 185, 186
  Visitor arrivals 184, 187-190
  Visitors present 15, 187, 190, 206

Trade (See also Retailing and Wholesaling)
  Balance of payments 570
  Foreign 408, 453, 454, 559, 561-567
  Interstate 559, 560

Subject — Page Numbers

Traffic. *See* Transportation

- Transportation
  - Air
    - Accidents ... 65
    - Aircraft operations ... 432, 433, 440-443
    - Airline characteristics ... 434, 435, 439-443
    - Airports and heliports ... 182, 183, 413, 431, 432, 437, 438
    - Cargo and mail ... 435-438
    - Distances between cities ... 439
    - Fares and flight times ... 440-443
    - Fuel consumption ... 404
    - Passengers ... 185, 434, 435, 437-439
    - Pilots, flight instructors, and nonpilot airmen ... 433
    - Visitor expenditures ... 197
  - Budgets
    - Family ... 334, 335
    - Retired couple ... 336, 337
  - Consumer price index ... 325, 327, 329
  - Ground
    - Accidents ... 65, 426
    - Bicycles ... 421
    - Bridges ... 414
    - Buses and bus service ... 417, 418, 420, 427-430
    - Commuting characteristics ... 430
    - Drivers licenses ... 424
    - Expenditures on vehicles ... 318
    - Fuel consumption ... 404, 424, 425
    - Miles traveled ... 424, 425
    - Parking spaces, metered ... 416
    - Passenger vehicles ... 417-423
    - Railroads ... 430
    - Speeds on highways ... 425, 426
    - Street and highway mileage ... 414
    - Taxis ... 421
    - Traffic signals ... 416
    - Trucks ... 417, 418, 420, 423
    - Tunnels ... 415
    - Vehicle registration ... 413, 417-423
    - Visitor expenditures ... 197
  - Personal consumption expenditures ... 308, 309
  - Water (*See also* Geography)
    - Accidents ... 65, 447
    - Boat and ship registration ... 413, 445, 446
    - Cargo ... 448, 450, 452-454
    - Fuel consumption ... 404
    - Harbors ... 182, 183, 444, 447, 448, 450, 451, 453, 454
    - Passengers ... 185, 448-451
    - Ship arrivals ... 447, 448

Subject — Page Numbers

Travel, Hawaii residents
  Characteristics of out-of-state travel 203, 204
  Passports issued 207
  Personal consumption expenditures 308, 309
  Returning from mainland 205
  Travelers in non-permanent households 206

Trees, streets and parks 170

Trucks 417, 418, 420, 423

Trust companies 358, 361, 512

Tsunamis (seismic sea waves) 151

Tunnels, highway 415

Unemployment. _See_ Employment and labor force

Unions 300, 301

United Way revenues and outlays 262, 263

University of Hawaii 98, 99, 102, 108

University Press of Hawaii 390

Unrelated individuals 46, 314-317

Urban population 13, 34

Utilities
  Electricity 393-395, 397, 398, 401-403, 409
  Gas 399, 400, 402, 403
  Rates 397-401, 403
  Telegraph 383, 391
  Telephone 381, 384-386, 392, 403
  Water 154, 403

Vacancy
  Housing 402, 499, 500, 502-504
  Office space 508, 509

Vehicles. _See_ Transportation

Veterans and retired military 272

Visitors. _See_ Tourism

Vital statistics. _See_ Health

Subject	Page Numbers
Volcanic eruptions	149
Voters and voting	339, 341-352
Wages and salaries. See Employment and labor force	
Water	
Area, inland water	140, 141
Quality, beaches	153, 154
Recreation	215-219, 221
Temperature, beach	159, 167
Use and consumption	152
Utility	154, 403
Waterfalls	146
Weather	133, 159-168
Weights and measures, table	9, 10
Welfare. See Public assistance	
Wholesaling	
Employment, jobcounts, and payrolls	282-285, 289, 534
Establishments	532, 534, 535, 544
Injuries, illneses, and lost workdays	299
Sales	531-535, 544
Tax base	533
Wages and salaries	289, 292, 293
Women-owned businesses	380
Wind	163-165, 167
Work stoppages	282-284, 302, 303, 529
Zoos	211